STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

1	·		L, CAC AND MINING		(highlig	ht changes)
	APPLICATION FOR	PERMIT TO	O DRILL		5. MINERAL LEASE NO: ML-47441	6. SURFACE:
IA. TYPE OF WO	rk: DRILL X REENTER	DEEPEN			7. IF INDIAN, ALLOTTEE OR	
B. TYPE OF W	VELL: OIL X GAS OTHER Dir	ectional SIN	IGLE ZONE MULTIPLE ZON	ÆΠ	8. UNIT OF CA AGREEMENT	NAME:
NAME OF OPE					9. WELL NAME and NUMBER	R:
Solaris Ex	ploration, Inc.				State 21-19 #32-	
. ADDRESS OF			PHONE NUMBER:		10. FIELD AND POOL, OR W	- 1
	rial Valley Dr., Ste 380 CITY Houston	STATE TX ZIP	77060 281-931-8933		1 1. QTR/QTR, SECTION, TO	
AT SURFACE:	WELL (FOOTAGES) 4310081 122 FSL, 994 FEL, SESC 600827	1 38.43574 1× 109.8361	10 431 0245 Y 38,93730		MERIDIAN:	
	PROTUCING ZONE: RHI 6	DESI 660 FEI	L, C SE SE, Sec. 32, T21S-R	10F		
			., C 3E 3E, 3CC. 32, 1213-K	176	SW SE SE, Sec. 3	
4. DISTANCE IN	I MILES AND DIRECTION FROM NEAREST TOWN OR F	POST OFFICE:			12. COUNTY: Grand	13. STATE: UTAI
Approxi	mately 2 Mile West of Crescent Jun	ction, Utah				
	O NEAREST PROPERTY OR LEASE LINE (FEET)	16. NUMBER (OF ACRES IN LEASE:	1	UMBER OF ACRES ASSIGNED) TO THIS WELL:
649'		40 000000	480	4	-	
B. DISTANCE TO APPLIED FOR	O NEAREST WELL (DRILLING, COMPLETED, OR R) ON THIS LEASE (FEET)	19. PROPOSE		1	OND DESCRIPTION:	
1 ELEVATIONS	(SHOW WHETHER DF, RT, GR, ETC.):		000' MATE DATE WORK WILL START:	Bo	ond Applied For.	
4,818' G	JK				30 days	
4.	PROPO	SED CASING A	AND CEMENTING PROGRAM			
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QU	ANTITY,	YIELD, AND SLURRY WEIGH	Τ
12 1/4"	9 5/8" J-55 36#	400'	185 Sx Class "G", 1.18 CFS	5 15.2	PPG	
8 3/4"	7" J-55 23#	4,900'	Lead 125 Sx Blend, 3.82 CFS, 11.	0 ppg,	Tail 375 Sx 50/50poz 1.2	21 CFS, 14.4 ppg
						
25 .		ATT	ACHMENTS			
VERIFY THE FOL	LLOWING ARE ATTACHED IN ACCORDANCE WITH TH	E UTAH OIL AND GAS	CONSERVATION GENERAL RULES:			
WELL PL			COMPLETE DRILLING PLAN			
WELL PL	AT OR MAP PREPARED BY LICENSED SURVEYOR OF	KENGINEEK				
EVIDENC	CE OF DIVISION OF WATER RIGHTS APPROVAL FOR	USE OF WATER	FORM 5, IF OPERATOR IS P	ERSON (OR COMPANY OTHER THAN 1	THE LEASE OWNER
						
NAME (PLEASE	PRINT) Julie L. Acevedo		TITLE Permit Ag	ent		
SIGNATURE	10:11-		DATE 7-8-03			
SIGNATURE_	yas comercia					
his space for 6ts	ite use only)	***	Americant but the	÷ •		
		3	Liber Division of	-	DECEN	/ED
API NUMBER AS	SIGNED: 43-019-31399		L Con and Mining		RECEIV	ピレ
NOMBER AS	00.10.		Y6-24-07-11	\	JUL 0 9 2	003
I/2001)		ENGA INSPAC	tions on Referring Side (†		
•		DY: (VAN VALVANIA	V .	DIV. OF OIL, GAS 8	* MINING

Agreed to and accepted the day and year first above written.

SOLARIS EXPLORATION CORP.

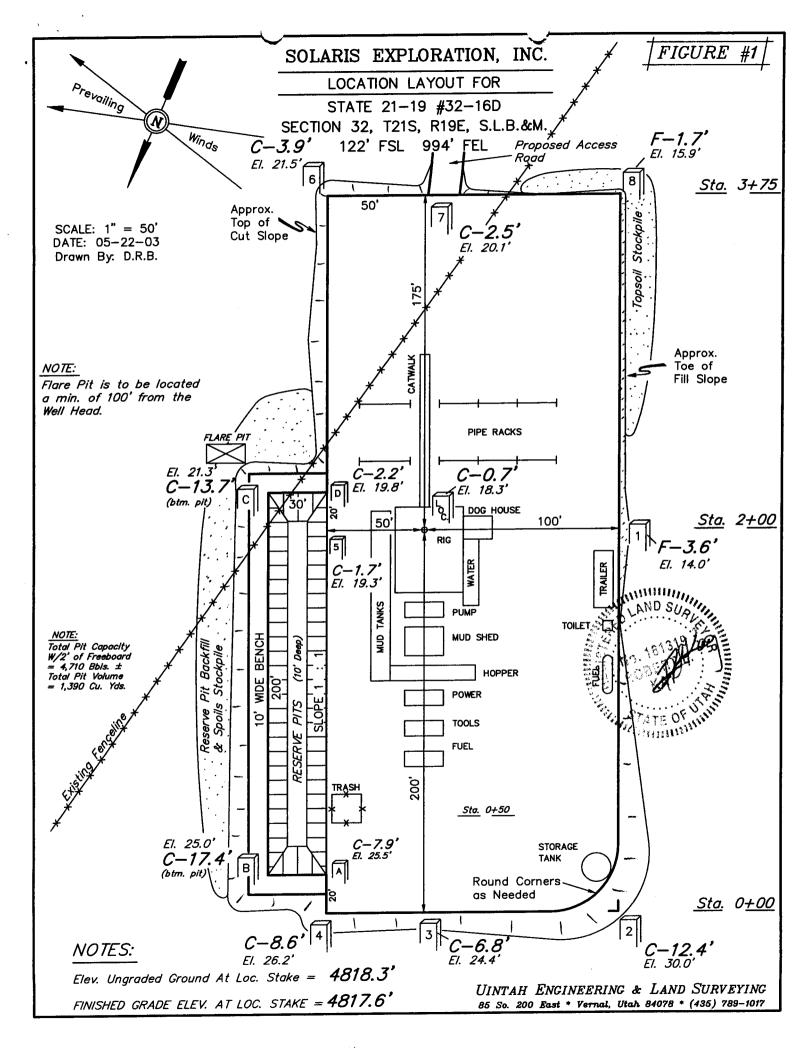
Lynn Faust, Vice-President

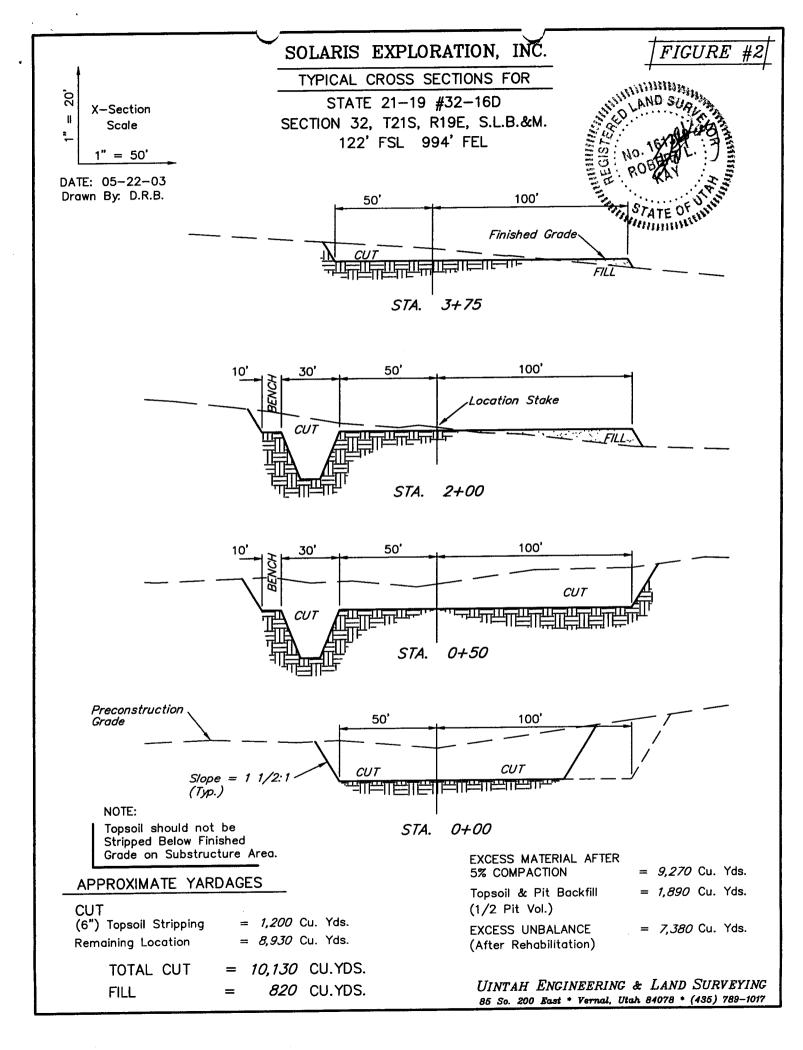
75% SURFACE OWNER:

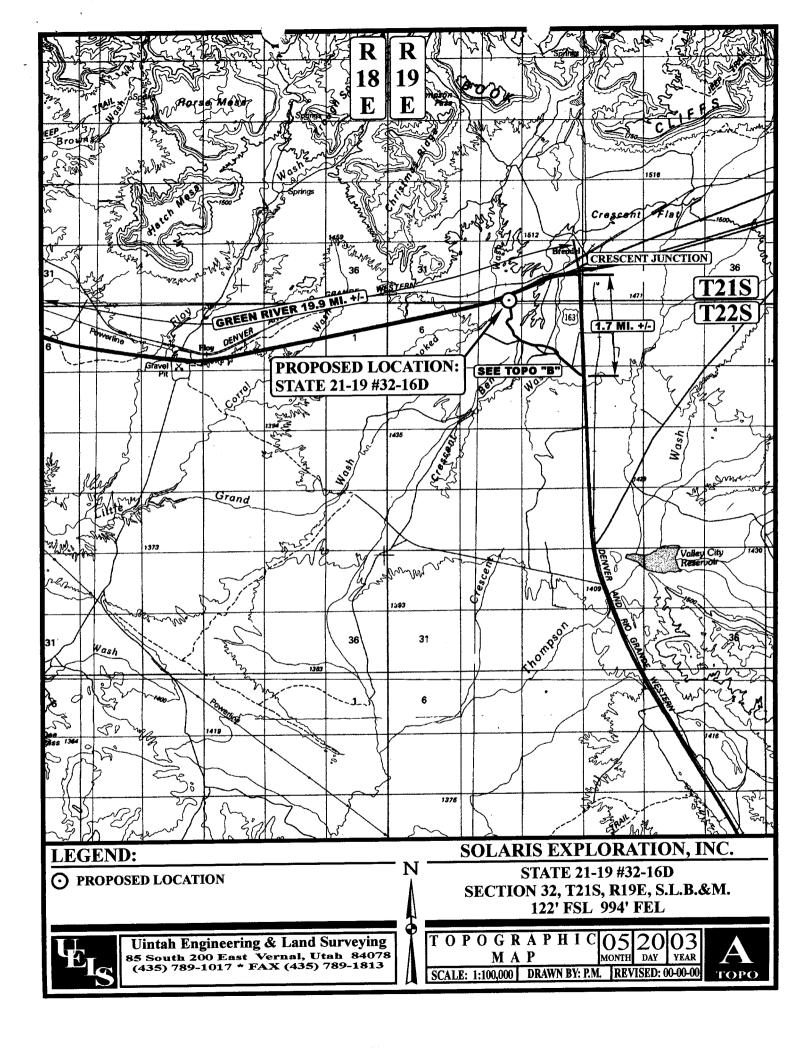
Mae Dean Wheeler, Trustee of the
F. W. Bert Wheeler Trust (Tax ID No. 76-6118953)
And the Mae Dean Wheeler Trust (Tax ID No. 76-6118954)

SOLARIS EXPLORATION, INC. T21S, R19E, S.L.B.&M. Well location, STATE 21-19 #32-16D, located as shown in the SE 1/4 SE 1/4 of Section 32, T21S, R19E, S.L.B.&M. Grand County, Utah. N89.57W - 79.96 (G.L.O.)BASIS OF ELEVATION BENCH MARK BRENDEL 61 LOCATED IN THE NW 1/4 OF SECTION 34, T21S, R19E, S.L.B.&M. TAKEN FROM THE (C.L.O.) CRESCENT JUNCTION QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, SAID ELEVATION IS STAMPED AS BEING 4898 FEET. N00°02'I (G.L.O.) 8 1919 Brass Cap Plastic Cap on 3/4" Rebar, RLS N00.01'E (Meas. THE PROPOSED WELL HEAD BEARS SCALE N82°59'43"W 1001.46' FROM THE SOUTHEAST CORNER OF SECTION 32, T21S, R19E, S.L.B.&M. CERTIFICATE THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLE REGISTERED LAND SURVEY STATE 21-19 #32-16D REGISTRATION NO. 161319 Elev. Ungraded Ground = 4818 **T21S** UINTAH ENGINEERING & LAND SURVEYING N89°51'W - 39.92 (G.L.O.) **T22S** 85 SOUTH 200 EAST - VERNAL, UTAH 84078 40.00 (G.L.O.) 1919 Brass Cap L122' (Comp.) 1.0' High, Pile (435) 789-1017 of Stones BASIS OF BEARINGS LEGEND: SCALE DATE SURVEYED: DATE DRAWN: BASIS OF BEARINGS IS A G.P.S. OBSERVATION. 1" = 1000'05-19-03 05 - 22 - 03= 90° SYMBOL PARTY REFERENCES (AUTONOMOUS NAD 83) S.H. D.B. D.R.B. G.L.O. PLAT PROPOSED WELL HEAD. LATITUDE = $38^{\circ}56'08.47"$ (38.935686) WEATHER LONGITUDE = 109'50'15.04" (109.837511) = SECTION CORNERS LOCATED. WARM

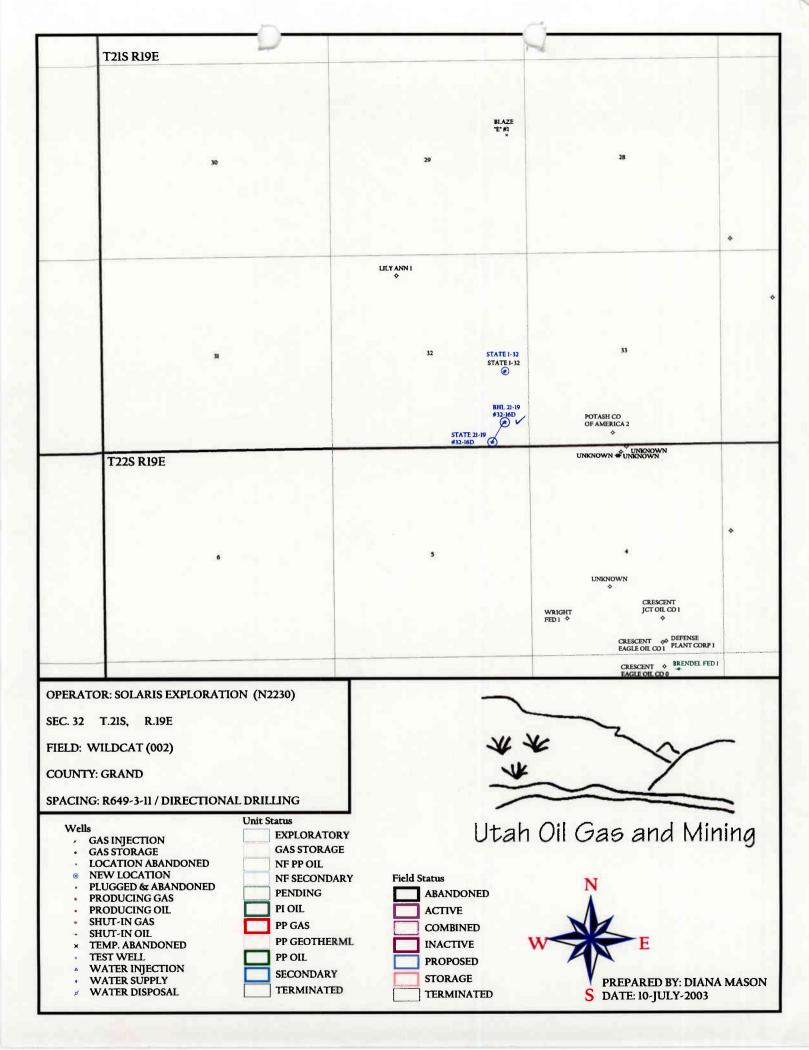
SOLARIS EXPLORATION, INC.







003 APPLICATION FOR P	ERMIT TO DRILL		
APD RECEIVED: 07/09/2003	API NO. ASSIGNE	ED: 43-019-313	99
WELL NAME: STATE 21-19 #32-16D OPERATOR: SOLARIS EXPLORATION (N2230) CONTACT: JULIE ACEVEDO PROPOSED LOCATION: SESE 32 210S 190E SURFACE: 0122 FSL 0994 FEL GRAND GRAND	PHONE NUMBER: 28 INSPECT LOCATN Tech Review Engineering		Date 8/26/03
WILDCAT (1) LEASE TYPE: 3 - State LEASE NUMBER: ML-47441 bt SURFACE OWNER: 4 - Fee PROPOSED FORMATION: WINGT	Geology Surface LATITUDE: 39.9 LONGITUDE: 109.		
Plat Bond: Fed[] Ind[] Sta[3] Fee[] (No. 20000 PER LG OV) Potash (Y/N) Oil Shale 190-5 (B) or 190-3 or 190-13 Water Permit (No. 0/-1/30 RDCC Review (Y/N) (Date: 07/25/2003) Fee Surf Agreement Y/N)	LOCATION AND SITE R649-2-3. Unit R649-3-2. Siting: 460 F R649-3-3. Drilling Unit Board Cause Eff Date: Siting: R649-3-11.	General From Qtr/Qtr & 920 Exception it e No:	
STIPULATIONS: STIPULATIONS: STIPULATIONS: STATEMENT OF BASI	Computed by 12/3 mit		n need to



FORM 3

STATE OF UTAH	
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING	<u> </u>

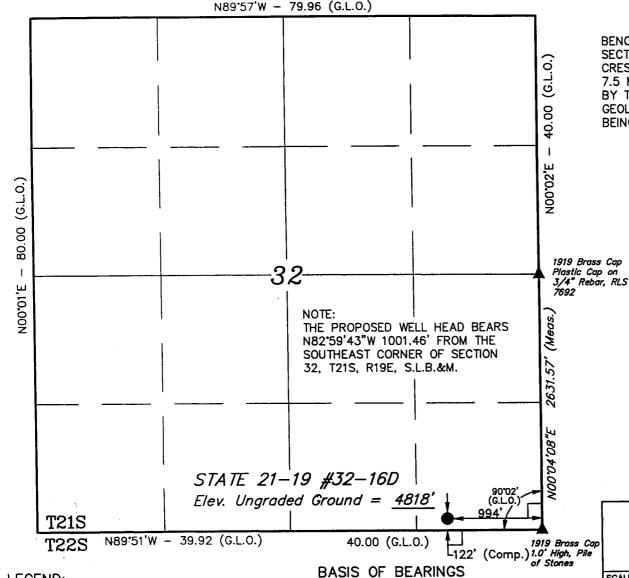
MENDED REPORT	
(highlight changes)	

APPLICATION FOR PERMIT TO DRILL			ML-474	14 1	6. SURPACE.	
IA. TYPE OF WORK: DRILL REENTER DEEPEN			7. IF INDIAN,	ALLOTTEE OR	TRIBE NAME:	
B. TYPE OF WI	B. TYPE OF WELL: OIL X GAS OTHER Directional SINGLE ZONE MULTIPLE ZONE			B. UNIT or CA	8. UNIT OF CA AGREEMENT NAME:	
2. NAME OF OPER	ATOR:				AE and NUMBER	
	Solaris Exploration, Inc. 3. ADDRESS OF OPERATOR: PHONE NUMBER:				1-19 #32-1 ND POOL, OR W	
	. =	. TX7'		-Unde	signated	whideat
4. LOCATION OF				1 1. QTR/QT	R, SECTION, TO	WNSHIP, RANGE,
AT SURFACE:	MELL (FOOTAGES) 122 FSL, 994 FEL, SESS STROCK T	x -109.8869	0 731 0245 x -109,93550			
AT PROPOSED	PRODUCING ZONE: BHL 660	FSL, 660 FEL	, C SE SE, Sec. 32, T21S-R1	E CW CE	CE Coo 2	771C D10E
14 DISTANCE IN	MILES AND DIRECTION FROM NEAREST TOWN OR P	OST OFFICE:		12. COUNTY		2, T21S-R19E
					Grand	UTAH
15. DISTANCE TO	nately 2 Mile West of Crescent June NEAREST PROPERTY OR LEASE LINE (FEET)	16. NUMBER O	F ACRES IN LEASE:	17. NUMBER OF AC	RES ASSIGNED	TO THIS WELL:
649'			480	40		
18. DISTANCE TO	NEAREST WELL (DRILLING, COMPLETED, OR ON THIS LEASE (FEET)	19. PROPOSED	DEPTH:	20. BOND DESCRIP	TION:	
AFFLIED FOR	JON THIS EEASE (LEET)	4,9		Bond Appli	ed For.	
21. ELEVATIONS	(SHOW WHETHER DF, RT, GR, ETC.):	22. APPROXIM	ATE DATE WORK WILL START:	23. ESTIMATED DU	RATION:	
4,818' G	R			30 days		
24.	PROPO	SED CASING A	ND CEMENTING PROGRAM			
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUA	(TITY, YIELD, AND S	SLURRY WEIGH	Г
12 1/4"	9 5/8" J-55 36#	400'	185 Sx Class "G", 1.18 CFS	15.2 PPG		
8 3/4"	7" J-55 23#	4,900'	Lead 125 Sx Blend, 3.82 CFS, 11.0	ppg, Tail 375 Sx	50/50poz 1.2	21 CFS, 14.4 ppg
						·····
25.		ATTA	ACHMENTS			-
VERIFY THE FOL	LOWING ARE ATTACHED IN ACCORDANCE WITH TH	UTAH OIL AND GAS (CONSERVATION GENERAL RULES:	-		
₩ELL PL	AT OR MAP PREPARED BY LICENSED SURVEYOR OF	FNGINEER	COMPLETE DRILLING PLAN			
	SE OF DIVISION OF WATER RIGHTS APPROVAL FOR		FORM 5, IF OPERATOR IS PE	SON OR COMPANY	OTHER THAN	THE LEASE OWNER
☐ EAIDEW	S OF DIAISION OF MALEY VIGHTS VELVOANT LOVE	30E 01 WATER				- · · · · · · · · · · · · · · · · · · ·
			* *			
NAME (PLEASE	PRINT) Julie L. Acevedo		TITLE Permit Ag	nt		
SIGNATURE	full Clounder		DATE 7-8-03			
(This space for Sta	nte use only)					
	11.			R	ECEIV	Ά
API NUMBER AS	signed: <u>43-019-31599</u>	<u>"</u>	APPROVAL:			
				JL	JL 0 9 2	00 3

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINES

T21S, R19E, S.L.B.&M.

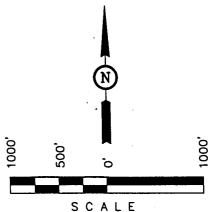


SOLARIS EXPLORATION, INC.

Well location, STATE 21-19 #32-16D, located as shown in the SE 1/4 SE 1/4 of Section 32, T21S, R19E, S.L.B.&M. Grand County, Utah.

BASIS OF ELEVATION

BENCH MARK BRENDEL 61 LOCATED IN THE NW 1/4 OF SECTION 34, T21S, R19E, S.L.B.&M. TAKEN FROM THE CRESCENT JUNCTION QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, SAID ELEVATION IS STAMPED AS BEING 4898 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

> REGISTERED LAND SURVEYOR REGISTRATION NO. 161319

STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017

DATE SURVEYED: SCALE DATE DRAWN: 1" = 1000'05-19-03 05-22-03 REFERENCES PARTY D.B. D.R.B. S.H. G.L.O. PLAT WEATHER WARM SOLARIS EXPLORATION, INC.

LEGEND:

= 90° SYMBOL

PROPOSED WELL HEAD.

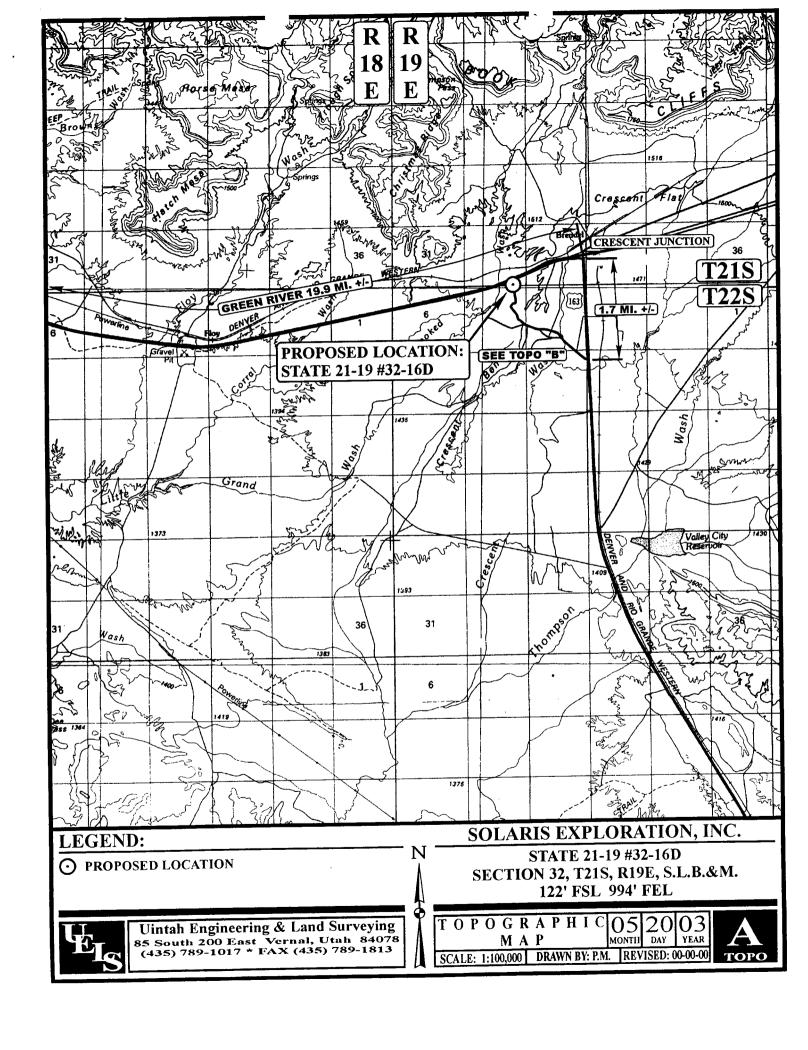
= SECTION CORNERS LOCATED.

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(AUTONOMOUS NAD 83)

LATITUDE = 38.56'08.47'' (38.935686)

LONGITUDE = 109.50'15.04'' (109.837511)



From:

Steven Parkin

To: Date: Diana Mason 7/14/03 2:49PM

Subject:

Drilling at ML-47441

Diana,

REGARDING RDCC project number 3050, the proposed well drilling project, ML-47441, Grand County, may require a permit, known as an Approval Order, from the Utah Division of Air Quality if any compressor stations are operating at the site. A permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, SLC, UT, 84116 for review according to the Utah Air Conservation Rule R307-400, Permits, Notice of Intent and Approval Order. A copy of the rules are found at www.rules.utah.gov/publicat/code/r307/r307.htm

Regards,

Steven Parkin Division Of Air Quality

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

DREW SITTERUD CHAIRMAN

William D. Howell Executive Director



375 SOUTH CARBON AVE. P.O. DRAWER 1106 PRICE, UTAH 84501 (435) 637-5444 FAX (435) 637-5448

AREA WIDE CLEARINGHOUSE REVIEW

Federal Action	State Action	Approved	() Yes	() No
Other (indicate)	·					
Applicant Address:						
Oil, Gas and Mining						
1594 West North Tem	ple #1210					
Salt Lake City, UT 84	114-5801	Phone Number:	801-	-538-531	2	
Title/Project Descript	ion Application for I	Permit to Drill - Solaris	Expl	oration, I	nc.	
proposes to drill the St	tate 21-19 well (wildcat) on State lease ML-47	441, (Grand Co	unty	UT.
			·· · · · · · · · · · · · · · · · · · ·		····	· · · · · · · · · · · · · · · · · · ·
		······································				
No Comment				•		
[] See comment belo	w					
_						
Comments: Approve	ed on July 17, 2003 at S	EUAOG Executive Bo	ard M	leeting.		
<u> </u>						
	·····	· · · · · · · · · · · · · · · · · · ·		RECE	HVE	-D
				JUL 2	1 20	
			DIV	OF OIL, G	. 	N Mario
	1 .			J. Olly G	nva OL I	MINING
Lorraine Ber	ushey	7/17/03				<u></u>
SELIALG) '	DATE				

STATE ACTIONS Governor's Office of Planning and Budget Resource Development Coordinating Committee P.O. Box 145610

1594 W. North Temple, Suite 3710 SLC, UT 84114-5610 538-5535

1. Administering State Agency	2. Approximate date project will start:
Oil, Gas and Mining	TT A wat
1594 West North Temple, Suite 1210	Upon Approval
Salt Lake City, UT 84114-5801	
3. Areawide clearinghouse(s) receiving state action: (to be sent o	ut by agency in block 1)
Southeastern Utah Association of Governments	
4. Type of action: //Lease /X/Permit //License //La	nd Acquisition
/ / Land Sale / / Land Exchange / / Other	
5. Title of proposed action:	
Application for Permit to Drill	
6. Description:	
Solaris Exploration, Inc. proposes to drill the State 21-19 well (v	wildcat) on State lease ML-47441, Grand County, Utah.
This action is being presented to the RDCC for consideration of	resource issues affecting state interests. The Division of
Oil, Gas and Mining is the primary administrative agency in this	action and must issue approval before operations
commence.	
7. Land affected (site location map required) (indicate county) -	include UTM coordinates where possible
122' FSL, 994' FEL, SE/4, SE/4,	and County Heah
Section 32, Township 21 South, Range 19 East, Gi	rand County, Utan
8. Jordan River Natural Areas Forum review – If the proposed a	ction affects lands within the Jordan River Natural
Areas Corridor. N/A	
9. Has the local government(s) been contacted? No	
If yes,	
a. How was contact made?	
b. Who was contacted?	
c. What was the response? d. If no response, how is the local government(s) likely to be imp	ageted?
a. It no response, now is the local government(s) likely to be imp	acicu;
10. Possible significant impacts likely to occur:	
Degree of impact is based on the discovery of oil or gas in comr	nercial quantities.
11. Name and phone of district representative from your agency N/A	near project site, if applicable:
12. For further information, contact:	13. Signature and title of authorized officer
	$\bigcap_{A} \mathcal{D} \mathcal{D}$
	M. Dan
Diana Mason	John R. Baza, Associate Director
Phone: (801) 538-5312	Date: July 10, 2003

Solaris Exploration, Inc. 16800 Imperial Valley Drive, Suite 380 Houston, Texas 77060

July 22, 2003

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801

RE: Directional Drilling State 21-19 #32-16D SE/SE Sec. 32: T21S-R19E Grand County, Utah

Solaris Exploration, Inc. has been designated as the operator of lease ML47441 and UTU077524 by the leaseholders. Solaris Exploration request approval from the division to directionally drill the subject well without notice or a hearing because Solaris Exploration has an operating agreement with the lease owners of all the oil and gas within a radius of 460 feet from all points along the proposed well bore located in Section 32, T21S-R19E, Grand County, Utah. The intentional deviation of the subject well is due to topographical constraints in this area; the surface location will be located in Section 32, SESE, 122 FSL and 994 FEL, T21S-R19E and the target bottom hole location will be located in Section 32, SESE, 660 FSL and 660 FEL, T21S-R19E, Grand County, Utah.

Per R649-3-11 Directional Drilling, attached is:

- 1. List of all working interest owners within a radius of 460 feet from all points along the intended well bore.
- Location plat showing the distance from the surface location to section and lease lines.
- 3. Designation of Operator and operating agreement.

Please contact Julie L. Acevedo at 303-287-5309 if have any questions or concerns.

Yours truly.

Julie L. Acevedo

Permit Agent

Attachments

RECEIVED

JUL 2 5 2003

DIV. OF OIL, GAS & MINING

Working Interest Owners:

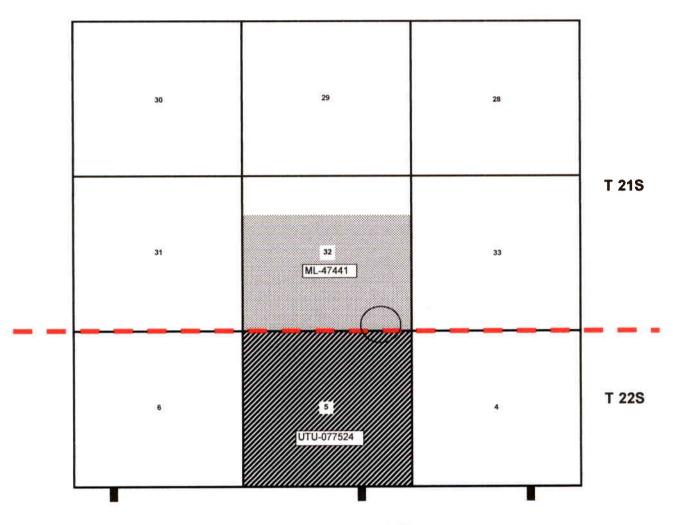
Rocksource Energy Corporation P. O Box 691847 Houston, TX 77269-1847

Tidewater Oil & Gas Company LLC 1645 Court Place, Suite 229 Denver, CO 80202

Solaris Exploration, Inc. 16800 Imperial Valley Drive, Suite 380 Houston, Texas 77060

Grand County, Utah

R 19E



STATE 21-19 #32-16D

DESIGNATION OF OPERATOR

The undersigned is, on the records of the School and Institutional Trust Lands Administration, holder of lease, ML 47441

and beroby designates

NAME:

SOLARIS EXPLORATION, INC.

16800 Imperial Valley, Suite 380

ADDRESS:

Houston, Texas 77060

as his operator and local agent, with tall authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Director of the Administration or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leanes with respect to (describe acreage to which this designation is applicable):

> Township 21 South, Range 19 East Section 32: SE/4 Gand County, Utah

Operator agrees to comply with all lease provisions, statutes, rules, and regulations, whether federal, state, or local, in its operations on the subject lease.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest

In case of definit on the part of the designated operator, the leases will make full and prompt compliance with all regulations, lease series, or orders of the Director, Trust Lands Administration or his representative.

The lessee agrees promptly to notify the Trust Lands Administration of any change in the decignated operator.

ROCKSOUNCE |

GAS COMPANY, LLC

2002

SOLARIS EXPLORATION, I

26 - 7002 Date

Attached to and made a part of that certain Operating Agreement attached as Bahibit "D" to that certain Tidewater Participation Agreement (Cactus Rose Area) effective August 1, 2002.

(1) Description of the Oil and Gas Leases and Lands Subject to this Operating Agreement. There are no restrictions as to depths, formations or substances.

Effective Date	Lessor	Not Acres	Description
12/01/00	Utah ML 47441	480.00	T213-R19E SLM
			Sec. 32: S/2N/2; S12
10/01/98	USA- UTU-77518	1680.00	T2 1 S-RIBE SLM
			Sec. 11: S/2N/2; S/2
			Sec. 13: NE/4;
			S/2NW/4; S/2
			Sec. 14: All
10/01/98	USA-UTIJ-77522	1,440.27	721S-R19E SLM
			Sec. ::7: N/2
•			Sec. 28: N/2
			Sec. 30: Lots 1-4;
			NE/4 E/2NW/4
			Sec. 51: Lots 5-8;
			E/2S\V/4; SE/4
10/01/01	USA-UTA-79788	652.00	<u> 1215 R19E SLM</u>
			Sec. 27 S/2 Excluding 15 acres in the Raikoad right – of –way U625(2 Sec. 23 S/2
10/01/98	USA-UTU-77523	320.00	T215-R19E SLM
			Sec. 29: N/2



Exhibit "A" to Operating Agreement Solaris Exploration Inc-Cactus Rose Area

Page2 of 3

10/01/98 10/01/97	USA-UTU-77524 USA-UTU-76597	1,481.40 411.81	T22S-R19E SLM Sec. 5: All Sec. 6: Lots 1-8; Lots 10-14; S/2NE/4; SE/4 T21S-R18E SLM Sec. 1:Lots 12; SE/4 Sec. 12; NE/4; E/2SE/4
04/01/98	USA-UTU-77083	40.00	T22;}-R 19E SLM Sec. 6: Lot 9
05/01/98	USA-UTU-77167	40.00	T22(-RI9E SLM Sec. 4: SE/4NE/4
09/1 7/97	UTAH ML 47721	342.92	T2IS-R1 SE SLM Sec 2: Lots 1,2,3,4; S/2(All)
07/01/97	USA-UTU-76491	1,520.80	T2IS RIPE SLM Sec. 17: S/2SE/4 Sec. 18: Lots 1-8; NEI4; E/2W/2; W/2SE/4 Sec. 19: All
04/16/97	UTAH ML 47576	1,600.00	T21S-R19E SLM Sec. 33: W/2; W/2E/2; SE/4SE/4 Sec. 34: E/2; E/2SW/4; SW/4SW/4 Sec. 35: All

Page3 of 3

Exhibit "A" to Operating Agreement Solaris Exploration Inc- Cactus Rose Area

01/01/98

USA-UTU-76557

1,200.00

T2IS-RI9E SLM

Sec. 17: N/2; \$W/4;

N/2SE/4

Sec. 20: All

(2) Parties to this Operating Agreement, Their Addresses, Telephone and Facsimile Number and Their Interest in the Contract Area.

Tidowater Oil & Gas Company LLC

11614 Elk Head Range Road

Littleton, Colorado 80127

Attn.: James S. Jones, Manager

Phone:

(303) 932-1181

Pacsimile:

(303) 932-1292

Rocksource Energy Corporation

PO Box 691847

Houston, Texas 77269-1847

Attn.: Thomas A. Collins, President

Phone:

(281) 260 0700

Facsimile: (281) 260 7011

Solaris Exploration, Inc.

16800 Imperial Valley, Suite 380

Houston, Texas 77060

Lynn S. Faust, Vice President

Phone:

(281) 931-8933

Facsimile:

(281) 931-8655

Initial Program & Initial Prospect Wells			Development Wells	
	Working Interest	Working Interest	Working Interes	
	Through the Tauks	After the Tanks		
Solaris	100%	85.0%	85.0%	
Tidcwater	-0-	7.5%	7.5%	
Rocksource	-0-	7.5%	7.5%	

End of Exhibit "A"

THERE IS NO EXHIBIT "B" TO THIS OPERATING AGREEMENT

#K

IN WITNESS WHEREOF, this	Agreement shall be effective as of the
2002	,
ATTEST OR WITNESS:	OPERATOR
	Solaris Exploration, Inc.
	Lynn S. Faust
***	Type or point status
	The Vice President
	Date 8-22-02
	Tex ID or S.S. No6 46 -66 - 246
	Name and the same
	NON-OPERATORS Rocksource Heergy Corporati
	- William
	Thomas A. Collins
	Type or print name
	President
	Title 8/21/02
·	
	Ter How SS, No. 76 -0456 2. Tidewator Oil & Gas Company
	- tours
	Type or print name
•	
	Tak Manager
	Dec 8/13/02
	Ten II) or S.S. No. 84-136389

P. The common on an annual relation of rather to the contract of an annual relation to the contract of the c	
	Type or prite none
	Tatle
	Date
	Tan H) or S.S. No.

Solaris Exploration, Inc. State 21-19 #32-16D SW'4 SE'4 SE'4, Section 32, T21S, R19E Grand Co., Utah

DRILLING PROGNOSIS

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS GR Elevation of 4,818 feet.

FORMATION	Top
Mancos Shale	Surface
Ferron Sandstone	290'
Tununk Shale	620'
Dakota Siltstone	1,075
Dakota Sandstone	1,245'
Cedar Mtn. Fm	1,280'
Burro Canyon	1,450'
Morrison Fm	1,490'
Salt Wash	1,960'
Tidwell	2,290'
Moab Tongue SS	2,365'
Entrada SS	2,430'
Carmel Fm	2,785
Navajo SS	2,925
Kayenta Fm	3,420'
Wingate SS	3,670'
Chinle Fm	4,150'
Paradox Fm	4,675'
TD	4,900'

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL BEARING FORMATIONS

FORMATION	DEPTH (TVD-ft)	SUBSTANCE
Salt Wash	1,960' – 2,289'	Possible Oil/gas
Moab Tongue SS	2,365' – 2,429'	Possible Oil/gas.
Entrada SS	2,430' – 2,784'	Possible Oil/gas.
Navajo SS	2,925' – 3,419'	Possible Oil/gas.
Kayenta Fm	3,420' – 3,669'	Possible Oil/gas.
Wingate SS	3,670' - 4,149'	Possible Oil/gas.

Any shallow water zones encountered will be adequately protected and reported. All potentially productive hydrocarbon zones will be cemented off.

3. PRESSURE CONTROL EQUIPMENT-Schematic attached

A. Type: 11"-3,000 psi WP BOP (See BOP diagram)

B. **Pressure rating:** 3,000 psi working pressure

C. Testing Procedures:

BOP Equipment and the 9 5/8" casing will be pressure tested to rated pressures prior to drilling out of the 9 5/8" surface casing. BOP rams will be function tested on trips and the stack will be pressure tested every 30 days if necessary.

4. THE PROPOSED CASING AND CEMENTING PROGRAM

A. The Casing Program

Hole Size	Casing Size	Wt./Ft.	<u>Grade</u>	<u>Joint</u>	<u>Depth</u>
12.250"	9 5/8"	36.00	J-55	STC	400'
8.750"	7"	23.00	J-55	LTC	4,900'

All tubulars will be new or inspected to premium specifications. Casing strings will be pressure tested to 0.22 psi/ft of casing string length or to 1,500 psi whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe. Surface casing shoe will be set in a competent formation.

A pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

B. The Cementing Program

Surface Casing: Cemen

Cement from 400' to surface as follows:

Lead cement to surface utilizing 100% excess. Lead cement will consist of approximately 185 sx Class G, weight 15.2 ppg, yeild 1.18 cubic ft/sx.

Production Casing:

Cement from total depth back up to 400' with sufficient tail slurry at 14.4 #/gal to bring cement to 4,000'??, and lead slurry at 11.0#/gal calculated to bring cement to 400'. Lead cement will consist of approximately 125 sx Blend weight 11.0 ppg, yeild 3.82 cubic ft/sx. Tail in with 375 Sx 50/50 poz, weight 14.4 ppg, yield 1.21 cubic ft/sx. Wait on cement, set slips with casing in full tension.

Actual volumes to be determined after reviewing logs and shows. All potentially productive zones will be covered with cement.

5. MUD PROGRAM

 Interval
 Type

 0-400'
 Air, Air mud

 400'—4,900'
 LSND

6. EVALUATION PROGRAM

Electric Logging Program

Hole Size
8.750"

Mud Type
LSND

T.D. to Surface Csg

GR/Dual Induction- SFL
GR/Borehole Compensated
Sonic/GR Neutron-Density
Continuous Dipmeter-FMI
T.D. to Surface
Gamma Ray-Directional

Mud Logging Program

Hole Size 8.750" Surface to T.D. Sample Frequency 10' 3 4 of Sample Cuts

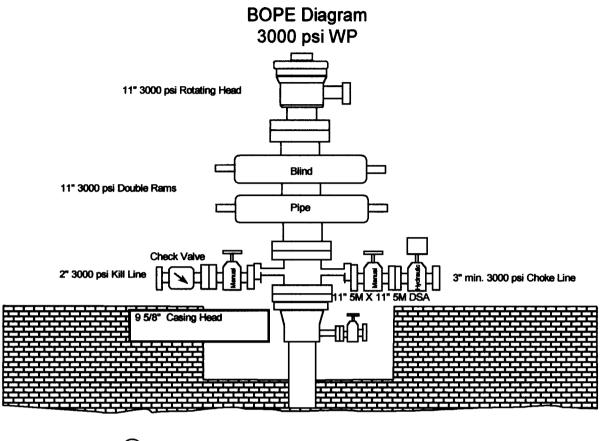
- Two-men (24 hours) automated mud logging FID and Chromatograph unit with wellsite geologic consultant starting at Surface to TD.
- Drill 8 3/4" hole to a total depth, circulate all shows and test zones as determined by gas shows, drilling breaks, etc. as recommended by wellsite geologist.

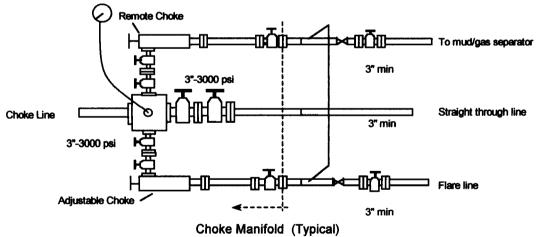
7. ANTICIPATED PRESSURES

Encountered pressures are expected to "normal" - .433 psi/ft.

No abnormal pressures are expected.

There is no known H2S in the area.





SOLARIS EXPLORATION, INC State 21-19 # 32-16D Sec. 32, T21S-R19E Grand County, Utah

DESIGNATION OF OPERATOR

The undersigned is, on the records of the School and Institutional Trust Lands Administration, holder of lease, ML 47441

and hereby designates

NAME:

SOLARIS EXPLORATION, INC.

16800 Imperial Valley, Suite 380

ADDRESS:

Houston, Texas 77060

as his operator and local agrast, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Director of the Administration or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leases with respect to (describe acreage to which this designation is applicable):

Township 21 South, Range 19 East Section 32: 8E/4 Gand County, Utah

Operator agrees to comply with all lease provisions, statutes, rules, and regulations, whether federal, state, or local, in its operations on the subject lease.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lesse and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director, Trust Lands Administration or his representative.

The lessee agrees promptly to notify the Trust Lands Administration of any change in the designated operator.

ROCKSOURCE EMERGY COMPONITION

Thomas A. Cellins, President (Lessee) Box 591847, Houston, TX 77289-1847

147.26, 2002 Date

PEWATER OIL & GAS COMPANY, LLC

Jambe S. Jenes, Madager (Leoces) 11614 Eli: Head Range Road, Littleton, CO 69127

SCLARIS EXPLORATION, INC.

Lytte Feust, Vice Precident (Operator)

Houston, TX 77888

2002 Date

Michael O. Leavitt
Governor
Robert L. Morgan
Executive Director
Kevin Conway
Division Director

Southeastern Region 475 West Price River Drive, Suite C Price, Utah 84501-2860 (435) 636-0260 telephone (435) 637-7361 fax www.nr.utah.gov

21 July, 2003

Ms. Diana Mason Division of Oil, Gas, and Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, UT 84114-5801

Subject: RDCC # 3050, APD wildcat well State 21-19.

enis R/ms

Dear Ms. Mason;

In regards to the subject action, the Utah Division of Wildlife Resources has the following comments.

We are concerned that development of the area for oil and gas production will result in impacts to native wildlife. The area contains habitat suitable for ferruginous hawk and burrowing owl nesting. Also, this area is just across Interstate Highway 70 from year-long critical antelope range.

Surveys for burrowing owls and ferruginous hawks should be conducted, if they have not been. During March 1 – August 1 no construction or drilling activity should occur within a 0.5 mile buffer of ferruginous hawk nests that appear to have been active during any of the past 3 years. These activities should not occur within 0.25 miles of recently active burrowing owl nests during April 1 – August 15. In order to avoid raptor electrocutions, only raptor-safe design utility poles should be installed. It appears from the APD that the lease-holders will be permitted to develop this field at 40 acre well spacing if they desire. Spacing wells at 1 per quarter section would greatly reduce negative impacts to antelope and other wildlife species.

Thank-you for the opportunity to review and comment on this proposed action. If you have any questions, please contact Tony Wright, oil and gas mitigation biologist, at our Price office, (435) 636-0267.

Sincerely

Derris Jones

Regional Supervisor

DJ/aw

RECEIVED

JUL 2 9 2003

DIV. OF OIL, GAS & MINING



bc:

GOPB Habitat Section-Mike Canning DNR – Carolyn Wright

ON-SITE PREDRILL EVALUATION Division of Oil, Gas and Mining

OPERATOR: Solaris Exploration
WELL NAME & NUMBER: State 21-19 #32-16D

API NUMBER: 43-019-31339

LEASE: State FIELD/UNIT: ______

LOCATION: 1/4,1/4 SESE Sec: 32 TWP: 21S RNG: 19E 122 FSL 994 FEL LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL. GPS COORD (UTM): X = 600815 E; Y = 4310085 N SURFACE OWNER: F.W. Wheeler Trustee and Irvin M. Shlenker Estate.

PARTICIPANTS

M. Jones (DOGM), James Jones and Duane Wurzer (Tidewater), T. Wright (DWR), Jerry McNeely (Grand County), were in attendance for the on-site of this well. SITLA was invited but chose not to attend the onsite. Surface owners were not invited to attend due to false information given by the operator.

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed location is ~19 miles east of Green River, Utah along I-70 and ~1 mile west of Crescent Jct. on I-70. Staked location lies just west of the Crescent Jct. I-70 rest area. The direct area drains west. Dry washes are typical throughout the area. Access is proposed to come from state Hwy 191 ~1.5 miles south of Crescent Jct. then across Fee, BLM, and SITLA lands to the location.

SURFACE USE PLAN

CURRENT SURFACE USE: Wildlife habitat and grazing.

PROPOSED SURFACE DISTURBANCE: 150' x 375' and a 30' x 200' x 10' pit which is excluded from the pad dimensions.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: <u>Multiple PA wells</u> and 1 Shut-in oil well is within a 1 mile radius of the above proposed well.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: On location.

SOURCE OF CONSTRUCTION MATERIAL: Obtained locally and transported in.

ANCILLARY FACILITIES: On location as needed.

WASTE MANAGEMENT PLAN:

Portable chemical toilets which will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into centralized dumpsters which will be emptied into an approved landfill. Crude oil production is unlikely. Drilling fluid, completion / frac fluid and cuttings will be buried in the. Produced water will be diverted to the reserve pit and allowed to evaporate. Produced water will be trucked to proper produced water disposal site if necessary. Used oil from drilling operations and support will be hauled to a used oil recycler and reused.

ENVIRONMENTAL PARAMETERS

Mark L. Jones
DOGM REPRESENTATIVE

ENVIRONMENTAL PARAMETERS
AFFECTED FLOODPLAINS AND/OR WETLANDS: Dry washes.
FLORA/FAUNA: Halogeton, sagebrush, grasses, small game, rodents.
SOIL TYPE AND CHARACTERISTICS: Gravely silty clay.
EROSION/SEDIMENTATION/STABILITY: Erosive upon disturbance.
PALEONTOLOGICAL POTENTIAL: None observed.
RESERVE PIT
CHARACTERISTICS: Dugout earthen pit.
LINER REQUIREMENTS (Site Ranking Form attached): None required.
SURFACE RESTORATION/RECLAMATION PLAN
As per surface use agreement.
SURFACE AGREEMENT: Currently in negotiation.
CULTURAL RESOURCES/ARCHAEOLOGY: Completed and placed on file with SITLA.
OTHER OBSERVATIONS/COMMENTS
DWR has some hawk nesting concerns if activities are delayed into spring, otherwise no concerns for this location. Grand County WELCOMES the proposed drilling. A pond lies along the access route at 600655 F 4309514 N NAD27 zone 12N. This pond holds runoff water for livestock use. The pad was staked cutting through an existing fence line. It recommended spinning the location ~15 degrees clockwise and running the location parallel to the fence to the operator. It also appears logical to move the new access road to the west side of the fence and eliminate all proposed new fence crossings. Cutting through this fence appears unnecessary at this time. These concerns and suggestions were also talked about with Rich McLure, BLM Moab. Rich will take these issues into consideration as he works on a right-of-way permit for Solaris to access this well. The location has been staked partially on BLM surface, which the Moab BLM office will also address in their right-of-way permit. Several, rather small, drainages will be crossed en-route to location where culverts will be necessary, and proper drainage diversion around the location will be needed. Solaris has been very pushy with this permit and has not provided accurate information particularly with the surface owners for this well site.
Photos of this location were taken and placed on file.
rilotos of tills location were taken and placed on lite.

August 4, 2003 / 2:15 pm DATE/TIME

Evaluation Ranking Criteria and Ranking Score For Reserve and Onsite Pit Liner Requirements

FOI REBEIVE AND C	Watca bic piner .	ddiremencs.
Site-Specific Factors	Ranking	Site Ranking
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10 15	
25 to 75 <25 or recharge area	20	0
	20	
Distance to Surf. Water (feet) >1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	_
< 100	20	0
Distance to Nearest Municipal		
Well (feet)		
>5280	0 5	
1320 to 5280 500 to 1320	10	
<500	20	0
Distance to Other Wells (feet)	^	
>1320 300 to 1320	0 10	
<300	20	0
Native Soil Type	0	
Low permeability Mod. permeability	10	
High permeability	20	10
Fluid Type	0	
Air/mist Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of		_
hazardous constituents	20	0
Drill Cuttings		
Normal Rock	0	0
Salt or detrimental	10	0
Annual Precipitation (inches)	0	
<10 10 to 20	0 5	
>20	10	0
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	0
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	•
Present	15	0

Sensitivity Level 1 = 20 or more; total containment is required.

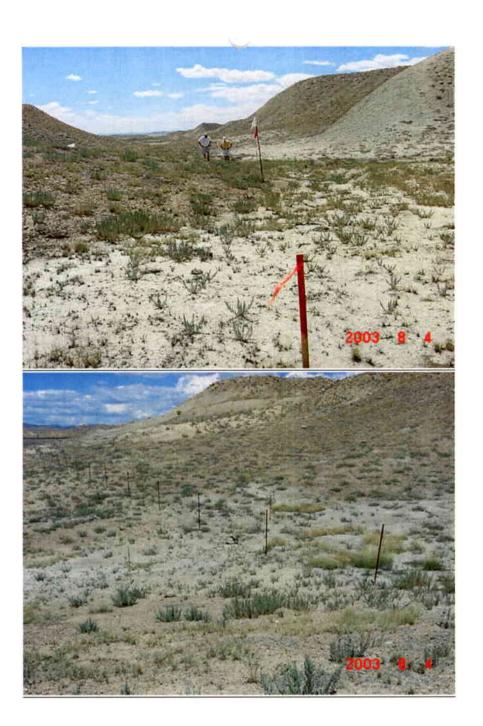
Sensitivity Level II = 15-19; lining is discretionary.

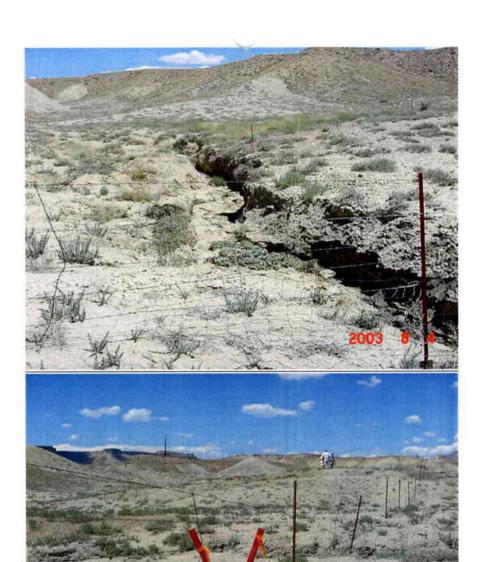
Sensitivity Level III = below 15; no specific lining is required.

Final Score









From:

Ed Bonner

To:

Mason, Diana

Date:

8/6/03 10:00AM

Subject:

Well Clearance

The following wells have been given cultural resource clearence by the Trust Lands Cultural Resources Group:

Solaris Exploration State 21-19 #32-16D

Dominion E&P Inc WHB 8-36E

Westport Oil & Gas NBU 922-36I NBU 1022-2I

If you have any questions regarding this matter please give me a call.

CC:

Garrison, LaVonne; Hill, Brad; Hunt, Gil

SOLARIS EXPLORATION, CORP.

16800 IMPERIAL VALLEY DR., STE. 380
HOUSTON, TEXAS 77060

281-931-8933 281-931-8655 FAX

	**************************************	ACSIMILE TRANSMI	TTAL SHEET	
то	m	FROM		
Man	a la	sen I	ynn Faust	
COMPANY:		DATE:	8-6-0	3
FAX NUMBER:	359-30	940 total	NO. OF PAGES IN CLUDIN	G COVER:
e at	·.			
A fate	21-19	+32-16D	reference nume ex:	·
Q urgent	or review	D PLEASE COMMENT	PLEASE REPLY	D plrase recycle
	31	1	——————————————————————————————————————	

RECEIVED

AUG 0 6 2003

DIV. OF OIL, GAS & MINING

APPLICATION FOR TEMPORARY CHANGE OF WATERCEIV

Fee Paids 75.00

STATE OF UTAH 03 0 2003 Receipt# 03-03552

WATER RIGHTS Roll#

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made, to the State Engineer, based upon the following showing of facts submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

WALEK KIGHTI NO	01-1130	APPLICATI	ON NO. t	t::8149 -		
Changes are proposed	in (check those app	licable)				
	version. X	place of use	<u> </u>	nature of use	<u> </u>	period of use.
1. OWNER INFORMATIO					_	1.4
Name: Utah School an		Lands Administ	ration	~ · · · · · · · · · · · · · · · · · · ·		Interest: %
Address 675 East 500 S	outs, Suite 300			I Itah	Tin Code	94102
					•	
2. *PRIORITY OF CHANGE	: July 30, 20	203		'FILING DATE:	July :	30. 2003
3. RIGHT EVIDENCED BY	: 01-1130 (F71691))				
Prior Approved Tempor	ery Change Applica	ations for this ric	aht: (23390)	125963; 127029		

4. QUANTITY OF WATER:		cfs and/or 8	45.90	aა-ft.		
	Water Wells (Exis	sting) (4)				
6. COUNTY: Grand						
6. COUNTY: Grand	1. S 1868 ft W 11 ft	t from N4 cor, S	ec 22, T24	S, <u>R2015</u> , SLBM		
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from 3. \$ 2124 ft W 73 ft from	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 22, T24	t from N4 cor, S 4S, R20E, SLBM S, R20E, SLBM	ec 22, T24!			
6. COUNTY: <u>Grand</u> 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 22, T24	t from N4 cor, S 4S, R20E, SLBM S, R20E, SLBM	ec 22, T24!			
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from 3. \$ 2124 ft W 73 ft from	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 22, T24 W4 cor, Sec. 23, T24	t from N4 cor, S IS, R20E, SLBM IS, R20E, SLBM 4S, R20E, SLBM	ec 22, T24!			
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from 3. \$ 2124 ft W 73 ft from 4. \$ 1220 ft E \$90 ft from Description of Diverting	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 22, T24 W4 cor, Sec. 23, T24 W Works: 16" casing	t from N4 cor, S IS, R20E, SLBM IS, R20E, SLBM 4S, R20E, SLBM	ec 22, T24!			
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from 3. \$ 2124 ft W 73 ft from 4. \$ 1220 ft E \$90 ft from Description of Diverting	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 22, T24 W4 cor, Sec. 23, T24 W Works: 16" casing	R from N4 cor, S IS, R20E, SLBM IS, R20E, SLBM 4S, R20E, SLBM 855 feet deep	ec 22, T24			
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. S 2341 ft W 218 ft from 3. S 2124 ft W 73 ft from 4. S 1220 ft E \$90 ft from Description of Diverting 8. POINT(S) Of REDIVERS The water has been re-	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 22, T24 W4 cor, Sec. 23, T24 W Works: 16" casing	R from N4 cor, S IS, R20E, SLBM IS, R20E, SLBM 4S, R20E, SLBM 855 feet deep	ec 22, T24!			
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from 3. \$ 2124 ft W 73 ft from 4. \$ 1220 ft E \$90 ft from Description of Diverting 8. POINT(S) Of REDIVERS The water has been recommended.	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 23, T24 W4 cor, Sec. 23, T24 W4 cor, Sec. 23, T25 g Works: 16" casing SION diverted from	R from N4 cor, S IS, R20E, SLBM IS, R20E, SLBM 4S, R20E, SLBM 855 feet deep	ec 22, T24	a point:		
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from 3. \$ 2124 ft W 73 ft from 4. \$ 1220 ft E \$90 ft from Description of Diverting 8. POINT(S) Of REDIVERS The water has been recommended.	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 23, T24 W4 cor, Sec. 23, T24 g Works: 16" casing SION diverted from	R from N4 cor, S IS, R20E, SLBM IS, R20E, SLBM 4S, R20E, SLBM 855 feet deep	ec 22, T24!	a point:		
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from 3. \$ 2124 ft W 73 ft from 4. \$ 1220 ft E \$90 ft from Description of Diverting 8. POINT(S) Of REDIVERS The water has been recommended.	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 23, T24 W4 cor, Sec. 23, T24 g Works: 16" casing SION diverted from	R from N4 cor, S IS, R20E, SLBM IS, R20E, SLBM 4S, R20E, SLBM 855 feet deep	ec 22, T24!	a point:		
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from 3. \$ 2124 ft W 73 ft from 4. \$ 1220 ft E \$90 ft from Description of Diverting 8. POINT(S) Of REDIVERS The water has been recommended. Description of Diverting 9. POINT(S) OF RETURN	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 23, T24 W4 cor, Sec. 23, T24 W4 cor, Sec. 23, T24 Works: 16" casing SION diverted from	R from N4 cor, S IS, R20E, SLBM IS, R20E, SLBM 4S, R20E, SLBM 855 feet deep	ec 22, T24!	a point:		
6. COUNTY: Grand 7. POINT(S) OF DIVERSION 2. \$ 2341 ft W 218 ft from 3. \$ 2124 ft W 73 ft from 4. \$ 1220 ft E \$90 ft from Description of Diverting 8. POINT(S) Of REDIVERS The water has been recommodated by the second of Diverting POINT(S) OF RETURN The amount of water of	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 23, T24 W4 cor, Sec. 23, T25 Works: 16" casing SION diverted from	R from N4 cor, S IS, R20E, SLBM IS, R20E, SLBM IS, R20E, SLBM ISS feet deep	c-ft.	a point:		
3. S 2124 ft W 73 ft from 4. S 1220 ft E \$90 ft from Description of Diverting 8. POINT(S) Of REDIVERS The water has been red Description of Diverting 9. POINT(S) OF RETURN	1. S 1868 ft W 11 ft N4cor, Sec. 22, T24 N4 cor, Sec. 23, T24 W4 cor, Sec. 23, T24 W4 cor, Sec. 23, T25 Works: 16" casing SION diverted from Onsumed is churned is cl	r from N4 cor, S IS, R20E, SLBM S, R20E, SLBM 4S, R20E, SLBM 855 feet deep cfs or 845.90 a fs ora	c-ft.	a point:		

10. NATURE AND PE	COD OF USE			
lirigation:		to October 31		
Stockwatering;	From			
Domestic:	From Jan 1	to December 31		
Municipal:	From	to		
Mining:	From	to		
Power:	From	to		
Other:	From	to		
I I. PURPOSE AND EX	TONT OF LICE			
		e supply of	acres.	
Stockwatering (nu	mber and kind): $-$			
Domestic: two 1	amilies and/or	Persons.		
Municipal (name)):	****		Mine.
Mining:		Mini	ng District in the	Mine.
Ores mined: _				
Power. Plant name	<u> </u>		Type; _	Capacity:
Other (describe):				
S1/PNE/4, SEI/4N Dalton Well Lease	IW1/4, SE1/4 Sec. 2		23 both T24S-R20E,	SLB&M
13. STORAGE				
Reservoir Name: L	Dalton Well Reserve	oir	Storage Period: from	April 1 to October 31
Capacity: 11.781	ac-ft. Inundated	Area: 1.30 acres.	J	
Height of dam: 10.	O feet.			
Legal description of	f inundated area b	v 40 tract(s): SW1/4N	E1/4, SE1/4NW1/4. S∞	tion 22, T24S-R20E SLB&M
	,	,		_
, 1 ₂ × s				
		ID BOLLOWING CUA	MORE ADD UDODOCD	D
14. QUANTITY OF WAT	rer.	cfs and/or 0	,1 ac-ft	
15. SOURCE: Undergou	and Water Wells (ex	sisting) (4)		
Balance of the water	r will be shandone	ed:	or will be used as	heretofore: X
C COUNTRY, Grand	N. 1			
7. POINT(S) OF DIVE	RSION: 1. S 1868 f	W 11 ft from N4 cor	Sec 22, T24S, R!OE,	SLBM
2. S 2341 R W 218 1	it from N4cor, <u>Sec. 2</u>	22, T24S, R20E, SLBI	м	
3. S 2 24 R W 73 R	from N4 cor, Sec. 2	2, T24S, R20E, SLBA	1	
4. \$ 1220 A E 890 A	from W4 cor, Sec.	23, T24S, R20E, SLB	M	
Description of Dive	rting Works: 1.)	7" x 600'; 2.) 12" x (590'; 3.) 10-3/4" x 7	50'; 4.) 8-5/8" x 500".
•COMMON DESCR	IPTION:Da	lton Well		
right all and the second				
8. POINT(S) OF REDIV				
The water will be r	ediverted from			at a point:
			· · · · · · · · · · · · · · · · · · · 	
<u> </u>				
Description of Dive	rting Works:			
				
9. POINT(S) OF RETUI	RN		۸1	
The amount of water	er to be consumed	iscfs or _	v.i ac-ft.	
The amount of water	er to be returned is	cis or	ac-ft.	
The water will be r	eturned to the natu	oral stream/source at	a point(s):	
A STATE OF S				

حد بالكسمار م			
20. NATURE AND PE		<u></u>	
Irrigation:		<u> </u>	
Stockwatering:	· · · · · · · · · · · · · · · · · · ·	<u>/ / </u>	
Domestic:	From/to		
Municipal;	1 (01)	<u> </u>	
Mining: Power;	From		
Other:	From 7 / 30 / 03 to 12		
Other.			
2 1. PURPOSE AND EX	ITENT OF USE		
Irrigation:	acres. Sole supply	ofacres.	
Stockwatering (nu	mber and kind):		
Domestic:	Families and/or	Persons.	
Municipal (name):			
			Mine
	was and a second of the contract of the contra		
Other (describe): E	xploratory Drilling		
22. Place of Use			
*	n of place of use by 40 acre tra	nct(s):	
SE 1/4SE 1/4, Section	on 32, T21S-R19E, SLB&M		
1. 化产品指数 1. 1 · 1			
23. Storage			
Réservoir Name:		Storage Period: fro	om to
Capacity:	ac-ft. Inundated Area:	1C708,	
Height of dam:	feet.		
Legal description of	f inundated area by 40 tract(s):		
Trunk	· · · · · · · · · · · · · · · · · · ·		
2.1. EXPLANATORY			
			ication. Include any supplementa
		lditional pages of same si	ze if necessary):
Use at the State 21-1	inc. 16800 Imperial Valley Dr., Ste.	380 Houston Texas '17060	Phone # 281_931_8933
Sold is Expression,	ille, 10000 imperial valley Dr., Sec.	Jou, Housell, Toxes 7000.	11000 # 201-751-0755
1 1 1 1 1 1	e sign of		
The undersigned he of the above-numb responsibility for	ereby acknowledges that even the ered application through the co the accuracy of the information	ough he/she/they may have ourtesy of the employees on contained herein, at	e been assisted in the preparation of the Division of Water rights, all the time of filing, rests with the
applicant(s).			 •
		signature of Applicant(s)	Jan Tarmenter
	S	ignature of Applicant(s)	Jan Tamenter Trust Lands Admir
Tar Maria		074	a Trust Lands Home

STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t28149

WATER RIGHT NUMBER: 01 - 1130

1. July 30, 2003 Change Application received by MK::LLI

- 2. July 30, 2003 Priority of Change Application.
- 3. Application reviewed and approved for advertising by . Publication began in .

Publication completed and verified.

4. End of protest period.
Application protested: NO

- 5. August 1, 2003 Application designated for APPROVAL by MPAGE and KJONES.
- 6. Comments:

Conditions:

This application is hereby APPROVED, dated August 1, 2003, subject to prior rights and this application will expire on December 31, 2003.

Mark Page

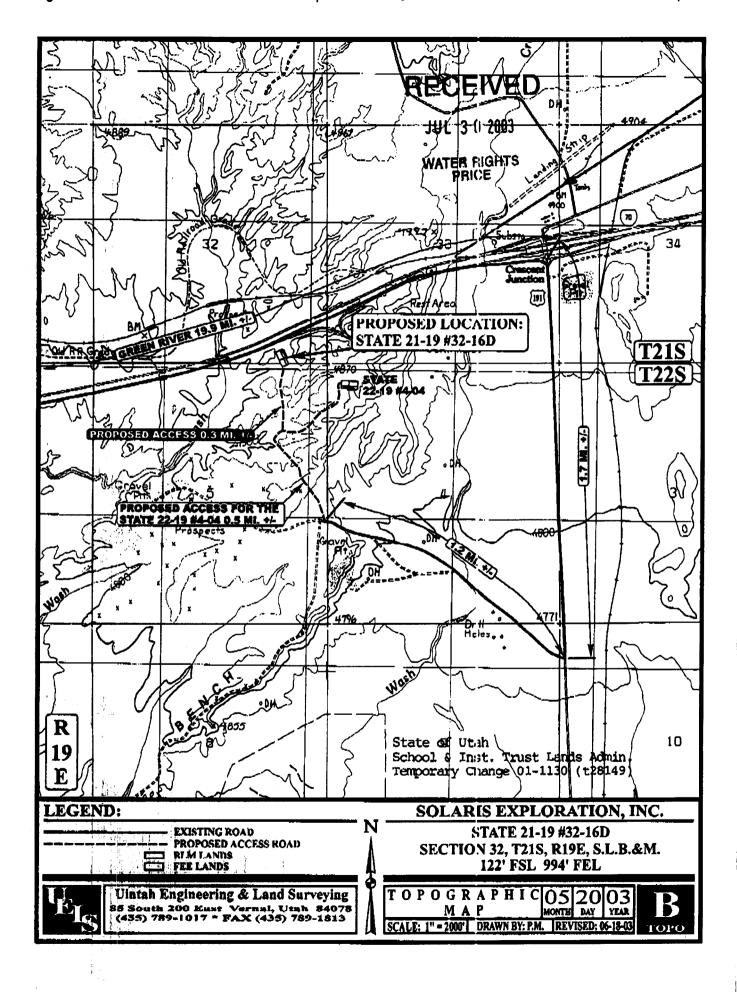
Regional Engineer

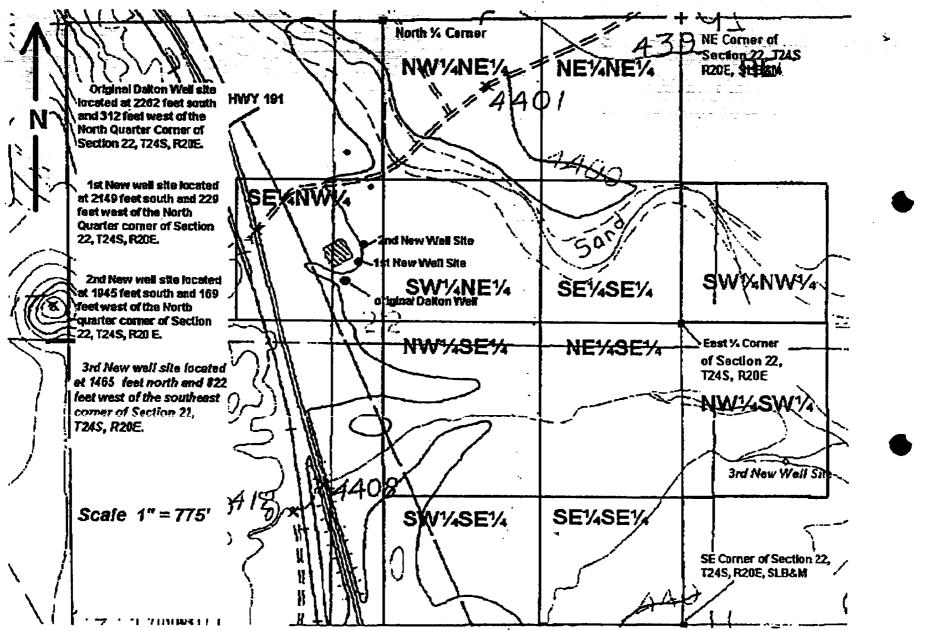
RECEIVED

JUL 3 0 2003

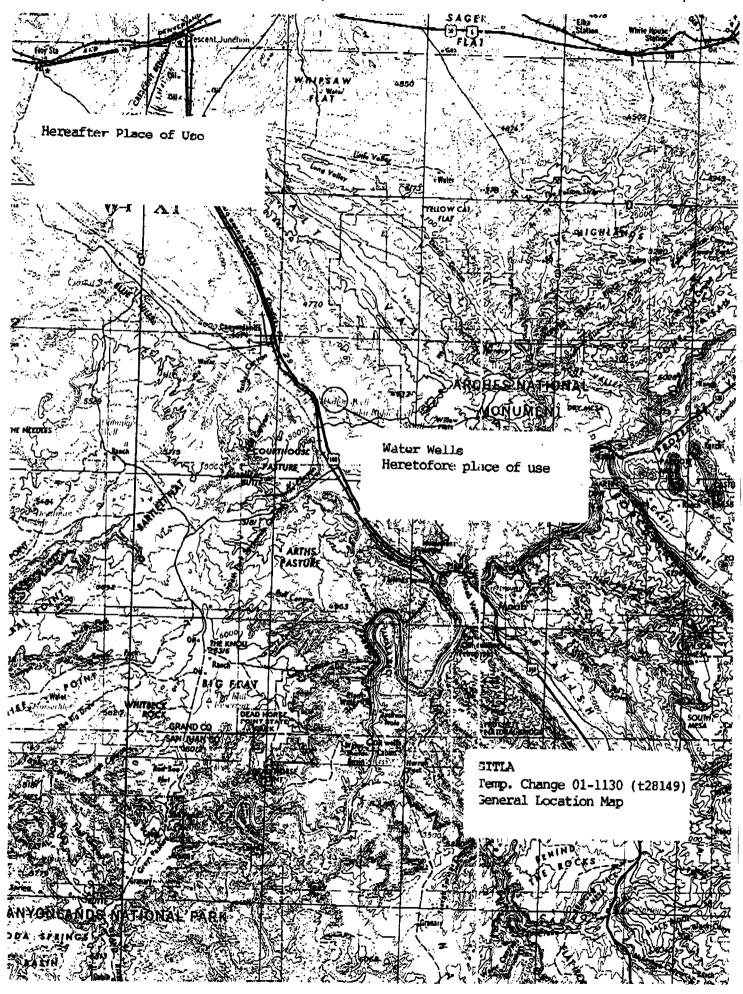
APPLICANT'S MAP VERIFICATION STATEMENT TER RIGHTS PRICE

· ·	Institutional Trust Lands Administration, hereby acknowledge that this
map (or, the map attached to this	application), consisting of pages numberedtowas prepared in
support of Application Number_	01-1130 (t28149)
I/we hereby accept and submit th	nis map as a true representation of the facts shown thereon to the best of my/our
knowledge and belief*.	
	Signature





State of Utah School & Institutional Trust Lands Admin. Water Right 01-1130 (t28149)



RECEIVED

July 23, 2003

JUL 3 0 2003

WATER RIGHTS PRICE

Bob Beeman Dub Beeman Drin Co. 5400 S. Hwy 151 PO Bax 788 Monb, UT 84532

Re: Weter Rights

Maria Carlos har and the contraction

Robert Beemen of Bob Beemen Drilling Co., do hereby authorize that Scients Exploration Corporation time my permission to use water from the following wells:

Dation Wells, Location - S. 2262 ft. & W. 312 ft. T245, R20E, SLB &M

State of Utah School & Institutional Trust Lands Administration Temporary Change 01-1130 (t28149)



State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER RIGHTS

Michael O. Loavitt

Robert L. Morgan Executive Director

Southeastern Area 453 South Carbon Avenue PO Box 719 Price, Utah 84501-0718

Price, Utah 84501-0718 (435) 637-1303 telephone (435) 637-7937 fax

Jorry D. Olds (435) 637-7937 fax State Engineer www.nr.utah.gov DATE:

August 1, 2003

RECEIPT No. 03-03552

>>>>>>OFFICIAL RECEIPT

RECEIVED FROM:

Utah School and Institutional Trust Lands Admin. 675 East 500 South, Suite 500

Salt Lake City, UT 84102

NATURE OF SERVICE:

Change Application

t28149(01-1130)

PEE: 75.00

TOTAL:

\$75.00

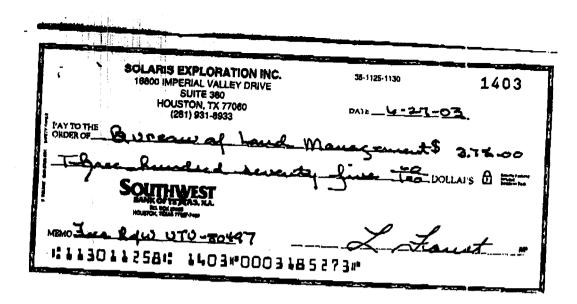
METHOD OF PAYMENT: Check 1405

RECEIVED BY:

MKILLIAN

			27.7
	SOLARIS EXPLORATION INC.	55-11 <u>85-113</u> 11	1405
6	SUITE 380 HOUSTON, TX 77060 (281) 931-8933	DATE 6-27-	
PAY TO THE ORDER OF	Hate of Utal Dept. of Nation	ual funces \$	75.00
Leve	to fine -		DLI.ARS 🙃 🚟
i i	SOUTHWEST	a	
мемо	PRACTISM, TEACH TEEC-1988	Zz	aust -
111110	11358: 1405#000318	5 2 ? 3 !!"	







State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER RIGHTS

RECEIVED

ार व ६ अशह

Michael O. Leavitt Governor Robert L. Morgan Executive Director Jerry D. Olds State Busineer Southeastern Area 453 South Carbon Avenue PO Box 718 Price, Utah 84501-0718 (435) 637-1303 telephone (435) 637-7937 lax www.nr.utah.gov

August 1, 2003

State of Utah School and Institutional Trust Lands Administration Attn: Jan Parmenter 675 East 500 South Suite 500 Salt Lake City, Utah 84102

Dear Applicant:

Re:

Temporary Change Application

Number t28149 (01-1130)

The above referenced Temporary Change Application has been APPROVED. This application will expire December 31, 2003, and it is expected that no diversion or use of the water will be made after that date unless another proposal has been made and approved. A copy is enclosed for your information and records.

If you have any questions, please feel free to contact me.

Sincerely,

Mark P. Page

Regional Engineer

Enclosures MPP/mjk

FEOST/ED

AUG 0 6 2003



SOLARIS EXPLORATION, CORP.

16800 IMPERIAL VALLEY DR., STE. 380

HOUSTON, TEXAS 77060

281-931-8933 281-931-8655FAX

	E TRANSMITTAL SHEET
	PROM:
Dean Mason	Lynn Faust
OMPANY:	DATE: 8-7-0.3
AX NUMBER: 201-359-3940	TOTAL NO. OF PAGES INCLUIDING COVER:
De Company	
Har Row	Your reference number:
Do you know if	we got the State Ro
permit, eget?	ene got The State Ro
	Thanks
### 19	Tym



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Moab Field Office
82 East Dogwood
Moab, Utah 84532

2800 UTU-80497 (UT-062)

CERTIFIED MAIL - RETURN RECEIPT REQUESTED Certification No. 7003 1010 0004 5516 3138

JUL 2 4 2003

DECISION

Solaris Exploration, Inc. 16800 Imperial Valley Dr., Suite 380 Houston, Texas 77060

Right-of-Way UTU-80497

Cost Recovery Category Determined! Application for Right-of-Way UTU-804:37

On July 11, 2003, Solaris Exploration, Inc. filed an application for a right-of-way for a road in Grand County, Utah, under the authority of Title V of the Federal Land Policy and Management Act, as amended. The right-of-way has been assigned Bureau of Land Management (BLM) serial number UTU-80497. In your future correspondence with this office, we ask that you refer to the BLM serial number which has been assigned to this application.

The cost reimbursement provisions of 43 CFR 2808.3-1, establish a cost recovery fee schedule for both processing and monitoring fees. It has been determined that your application falls under Category II. Under this category, you are required to pay a nonrefundable application processing fee in the amount of \$300.00 before we can take further action on your application. In addition to the processing fee, there is a monitoring fee for Category II in the amount of \$75.00. Please note that a category determination may be changed to Category V at any time it is determined that an Environmental Impact Statement is required.

The processing and monitoring fees of \$375.00 are now due.

This decision may be appealed to the Interior Board of Land Appeals, Office of the Secretary, in accordance with the regulations at 43 CFR, Part 4 and the enclosed Form 1842-1. If an appeal is taken, your notice of appeal must be filed in this office (at the above address) within 30 days from receipt of this decision. The appellant has the burden of showing that the decision appealed from is in error.

RECEIVED
AUG 0 / 2003

-2-

If you wish to file a petition (pursuant to regulation 43 CFR 4.21 (58 FR 4939, January 19, 1993) or 43 CFR 2804.1 for a stay of the effectiveness of this decision during the time that your appeal is being reviewed by the Board, the petition for a stay must accompany your notice of appeal. A petition for a stay is required to show sufficient justification based on the standards listed below. Copies of the notice of appeal and petition for a stay must also be submitted to each party named in this decision and to the Interior Board of Land Appeals and to the appropriate Office of the Solicitor (see 43 CFR 4.413) at the same time the original documents are filed with this office. If you request a stay, you have the burden of proof to demonstrate that a stay should be granted.

Standards for Obtaining a Stay

Except as otherwise provided by law or other pertinent regulation, a petition for a stay of a decision pending appeal shall show sufficient justification based on the following standards:

- The relative harm to the parties if the stay is granted or denied, (1)
- The likelihood of the appellant's success on the merits, (2)
- The likelihood of immediate and irreparable harm if the stay is not granted, and (3)
- Whether the public interest favors granting the stay. (4)

Please note, however, that under the regulations in 43 CFIR Group 2800, this decision is effective even if an appeal is filed.

William Stringer

Assistant Field Office Manager **Division of Resources**

Enclosure Form 1842-1

3.

PR

rless 1 mmuni

Form 1842-1 (February 1985)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

INFORMATION ON TAKING APPEALS TO THE BOARD OF LAND APPEALS

DO NOT APPEAL UNLESS

- 1. This decision is adverse to you,
 - AND
- 2. You believe it is incorrect

IF YOU APPEAL, THE FOLLOWING PROCEDURES MUST BE FOLLOWED

Within 30 days file a Notice of Appeal in the office which issued this decision (see I. NOTICE OF APPEAL

43 CFR Secs. 4.411 and 4.413). You may state your reasons for appealing, if you

desire.

Assistant Field Manager, Division of Resources

2. WHERE TO FILE **Bureau of Land Management** NOTICE OF APPEAL

82 East Dogwood Moab, Utah 84532

Regional Solicitor, Intermountain Region SOLICITOR

U.S. Department of Interior ALSO COPY TO

6201 Federal Building 125 South State Street

Salt Lake City, Utah 84138-1180

Within 30 days after filing the Notice of Appeal, file a complete statement of the 3. STATEMENT OF REASONS . . reasons why you are appealing. This must be filed with the United States Department of the Interior. Office of the Secretary, Board of Land Appeals, 4015 Wilson Blvd., Arlington, Virginia 22203 (see 43 CFR Sec. 4.412 and 4.413). If you fully stated your

reasons for appealing when filing the Notice of Appeal, no additional statement is necessary.

Regional Solicitor, Intermountain Region

SOLICITOR U.S. Department of Interior ALSO COPY TO

6201 Federal Building 125 South State Street

Salt Lake City, Utah 84138-1180

Within 15 days after each document is filed, each adverse party named in the decision 4. ADVERSE PARTIES and the Regional Solicitor or Field Solicitor having jurisdiction over the State in which the appeal arose must be served with a copy of: (a) the Notice of Appeal, (b) the States ment of Reasons, and (c) any other documents filed (see 43 CFR Sec. 4.413). Service

will be made upon the Associate Solicitor, Division of Energy and Resources, Washington, D.C. 20240, instead of the Field or Regional Solicitor when appeals are taken

from decisions of the Director (WO-100).

Within 15 days after any document is served on an adverse party, file proof of that 5. PROOF OF SERVICE . service with the United States Department of the Interior, Office of the Secretary,

Board of Land Appeals, 4015 Wilson Blvd., Arlington, Virginia 22203. This may consist of a certified or registered mail "Return Receipt Card" signed by the adverse party

(see 43 CFR Sec. 4.401(c)(2)).

Unless these procedures are followed your appeal will be subject to dismissal (see 43 CFR Sec. 4.402). Be certain that ell communications are identified by serial number of the case being appruled.

AOTE: A document is not filed until it is actually received in the proper office (see 43 CFR Sec. 4.401(a))

AFFIDAVIT OF LYNN FAUST

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME, the undersigned Notary, DEBLA K. OLSON on this 14 day of August, 2003, personally appeared Lynn Faust, known to me to be a credible person and of lawful age, who being by me first duly sworn on her oath, deposes and say:

I, Lynn Faust, as a representative of Solaris Exploration Corporation (Solaris) did personally speak to Mrs. Gay Schlenker Block and Mr. Ron Cowe legal representatives of the current surface owners of the proposed well site State 21-19 #32-16D and for consideration have given their permission to Solaris to build the proposed well site.

Lynn Faust, Vice-President

Subscribed and sworn to before me, this /4_day of August. 2003

My commission expires: 500t. 30 2003



RECEIVED AUG 1 4 2003 DIV. OF OIL, GAS & MINING

SURFACE USE AGREEMENT

THIS AGREEMENT is entered into this _______ day of August, 2003, by and between Mae Dean Wheeler Trustee of both the F. W. Bert Wheeler Trust and the Mae Dean Wheeler Trust ("75% Surface Owner") 1919 Whitney Street, Suite 100, Houston, TX 77006, and Solaris Exploration Corp. ("Solaris"), 16800 Imperial Valley Drive, Ste. 380, Houston, TX 77060.

Solaris plans to drill and complete or plug and abandon the ST 21-19 #32-16D in the SW SE SE, Section 32, Township 21 South, Range 19 East, Grand County, Utah ("Property"), and the 75% Surface Owner owns an undivided 75% share of the surface of the Property. Solaris and 75% Surface Owner have agreed to the settlement of surface damages in the amount of Two Thousand Dollars (\$2,000.00), being One Thousand Five Hundred Net Dollars (\$1,500.00) in consideration of such payment and in consideration of the obligations set forth herein, Solaris and 75% Surface Owner agree as follows:

- Said payment constitutes the full and entire consideration to be paid 75% 1. Surface Owner by Solaris for the use of its partial ownership of the surface and all damages (except as provided in paragraph 2 hereof) to the Property associated with the drilling, testing, completion, recompletion, reworking, re-entry, pumping, operations and maintenance of the drill site located on the Property. The payment is for all damages to the Property, including, but not limited to, damages to growing crops, if any, removal, transportation and care of livestock, if any, construction of access roads preparation and use of the drill site area, preparation and use of reserve pits, construction, installation and maintenance of production equipment and facilities such as flow lines, gas pipelines, separators, tank batteries and other equipment or facilities necessary or convenient to the production, transportation and sale of oil, gas and other materials produced by or used for production of oil and/or gas from the Property. With respect to the construction, access roads, preparation and use of the drill site area, preparation and use of reserve pits, and construction, installation and maintenance of procluction equipment and facilities such as flow lines, gas pipelines, separators, tank batteries and other equipment or facilities necessary or convonient to the production, transportation and sale of oil, gas and other materials produced by or used for production of the well, Solaris may exerc se the rights granted in this agreement at any time and from time to time without further additional consideration being payable to 75% Surface Owner. The "drillsite" or "drillsite area" is depicted on the plat attached as Exhibit "A".
- 2. If, by reason of Solaris' operations, there is damage to personal property located on the Property, or if there is damage to the Property caused by the negligence of Solaris or an unreasonable use of the Property by Solaris that is not associated with reasonable and normal drilling, testing, completion, re-completion, reworking, re-entry, pumping, production and maintenance operations, such as damage to structures, fences, culverts and cement ditches, such damage shall be repaired or replaced by

Solaris or Solaris shall promptly pay 75% Surface Owner for such damage.

As between 75% Surface Owner and Solaris, 75% Surface Owner shall have no liability for the release or discharge by Solaris, it contractors or agents of oil, gas or any other substance on or under the property, except as any such release or discharge is caused in whole or in party by 75% Surface Owner, 75% surface Owner's tenant, licensees, invitees, or agents, and Solaris will indemnify and hold 75% Surface Owner harmless from and against all costs and expenses (including reasonable attorney's fees) for any such release or discharge by Solaris.

4. Solaris agrees to restore the surface of the land as close to predisturbed topography and surface condition as possible, but not less than the minimum well site restoration requirements established by the Utah

Division of Oil, Gas & Mining,

5. This Agreement constitutes written consent of 7.5% Surface Owner for Solaris to proceed with the drilling, testing completion, re-completion, reworking, re-entry, pumping, operation and maintenance of the above described drill site on the Property.

6. Upon completion of a producing well, Solaris agrees to furnish 75% Surface Owner with a formal written release as to the surface usage

covered by this Agreement with the exception of:

a. The immediate acreage around the Well, large enough in size to provide ample space for storage tanks and other production facilities, and also large enough for vehicle turnaround and other required use to properly maintain and operate the Well in accordance with the rules and regulations of the Utah Division of Oil, Gas & Mining.

7. 75% Surface Owner agrees to provide a copy of this Agreement to any potential success or assigns 75% Surface Owner prior to any potential successor or assigns of 75% Surface Owner prior to the closing of any

sale of all or any portion of the property.

Except for Paragraph 3. hereof which will survive the term of this Agreement, this Agreement will terminate at the and of two (2) years from the date hereof or, if the Well is productive, at such time as the Well is plugged and abandoned and the surface reclaimed and restored.

9. This Agreement shall be binding upon and inure to the benefit of the

successors and assigns of the parties hereto.

(The remainder of this page was intentionally left blank)

THIS AGREEMENT is entered into this 22 day of August, 2003, by and between Gay Shlenker Block, Executrix of the Estate of Irvin M. Shlenker ("Surface Owner" 0 1530 Bishop's Lodge Road, Santa Fe, NM 87501, and Solaris Exploration Corp. ("Solaris"), 16800 Imperial Valley Rd, Ste. 380, Houston, TX 77060.

Solaris plans to drill and complete or plug and abandon a well in the SW SE SE. Section 32, Township 21 South, Range 19 East, Grand County, Utah ("Property"), and the Surface Owner owns an undivided 25% share of the surface of all of the Section 32 Property. Solaris and Surface Owner have agreed to the settlement of surface damages in the amount of Two thousand (\$2,000.00), being Five Hundred Net Dollars (\$500.00) in consideration of such payment and in consideration of the obligations set forth herein. Solaris and Surface Owner agree as follows:

- 1. Said payment constitutes the full and entire consideration to be pai i Surface Owner by Solaris for the use of its partial ownership of the surface and all damages (except as provided in paragraph 2 hereof) to the land associated with the drilling, testing, completion, re-completion, reworking, re-entry, pumping, operations and maintenance of the drill site located on the Property. The payment is for all damages to the Property, including, but not limited to. damages to growing crops, if any, removal, transportation and care of I vestock, if any, construction of access roads preparation and use of the drill site area, preparation and use of reserve pits. construction, installation and maintenance of production equipment and facilities such as flow lines, gas pipelines, separators, tank batteries and other equipment or facilities necessary or convenient to the production, transportation and sale of oil, gas and other materials produced by or used for production of oil and/or gas from the Property. With respect to the construction, access roads, preparation and use of the drill site area, preparation and use of reserve pits, and construction, installation and maintenance of production equipment and facilities such as flow lines, gas pipelines, separators, tank batteries and other equipment or facilities necessary or convenient to the production, transportation and sale of oil, gas and other materials produced by or used for production of the well, Solaris may exercise the rights granted in this Agreement at any time and from time to time without further additional consideration being payable to Surface Owner.
- 2. If, by reason of Solaris's operations, there is damage to personal property located on the Property, or if there is damage to the Property caused by the negligence of Solaris or an unreasonable use of the Property by Solaris that is not associated with reasonable and normal drilling, testing, completion, re-completion, reworking,

re-entry, pumping, production and maintenance operations, such as damage to structures, fences, culverts and cement ditches, such damage shall be repaired or replaced by Solaris or Solaris shall promptly pay Surface Owner for such damage.

- As between Surface Owner and Republic, Surface Owner shall have no liability for the release or discharge by Solaris, its contractors or agents of oil, gas or any other substance on or under the property, except as any such release or discharge is caused in whole or in part by Surface Owner, Surface Owner's tenant, licensees, invitees, or agents, and Solaris will indemnify and hold Surface Owner harmless from and against all costs and expenses (including reasonable attorney's fees) for any such release or discharge by Solaris.
- 4. Solaris agrees to restore the surface of the land in accordance with the minimum well site restoration requirements established by the Utah Division of Oil, Gas & Mining.
- 5. This Agreement constitutes written consent of Surface Owner for So aris to proceed with the drilling, testing completion, recompletion, re-working, re-entry, pumping, operation and maintenance of the above described drill site on the Property.
- 6. Except as provided in paragraph 2 hereof, Surface Owner, for itself, and its successors and assigns, does hereby release, relinquish and discharge Solaris its successors and assigns, from all claims, demands, damages and causes of action, past, present and future, that Surface Owner may have by reason of the occupancy of the Property and for the drilling of the well and all other damage or injury to the Property caused by the drilling, completion, recompletion, re-working, re-entry, pumping, operation and maintenance of the well and Surface Owner accepts the above payment as full compensation for its interest therefore.
- 7. Surface Owner agrees to provide a copy of this Agreement to any potential successor or assign of surface Owner prior to the closing of any sale of all or any portion of the property.
- This Agreement shall be binding upon and inure to the benefit of the successors and assigns of the parties hereto.

(The remainder of this page was intentionally left blank)

Agreed to and accepted the day and year first above written.

SOLARIS EXPLORATION CORP.

Lynn Faust, Vice-President

25% SURFACE OWNER:

Gny Shlenker Block, Executrix of The Estate of Irvin M. Shlenker SS# or Tax ID No.

DIVISION OF OIL, GAS AND MINING APPLICATION FOR PERMIT TO DRILL STATEMENT OF BASIS

OPERATOR:	Solaris Exploration		
WELL NAME & NUMBER:	State 21-19 #32-16D		
API NUMBER:	43-019-31399		
	Sec: 32 TWP: 21S_RNG: 19F	122 FSL 994 FEL	

Geology/Ground Water:

A well at this location will likely spud into a poorly permeable soil developed on the Cretaceous age Mancos Shale. There are three water rights filed within a mile of the location, two of which are filed by SITLA on ground water resources. Owing to a familiarity with the area, I am of the opinion that neither of the cited wells were ever drilled to confirm the resource for which application was made (from the mid –1980s vintage water right application: 8,100 acre-feet/ 16 inch diameter casing/ 1,500 feet to 2,500 feet total depth??). There is no evidence on digital orthophoto imagery of such infrastructure ever having been installed in the area during that relatively recent time). The Dakota/Burro Canyon Aquifer is estimated for penetration at a depth of 1,075 feet in the proposed well. Recent nearby wells indicate that this is probably optimistic (>2,700 feet to top of same interval). It is unlikely to encounter a significant high quality ground water resource. The operator has a shut in oil well about 2,000 feet to the north-northwest in the same Section. The proposed casing and cement program should provide adequate protection to the parsimonious high quality ground water resources in this area.

Reviewer:	Christopher J. Kierst	Da	ate:	8/26/2003	

Surface:

Proposed location is ~19 miles east of Green River, Utah along I-70 and ~1 mile west of Crescent Jct. on I-70. Staked location lies just west of the Crescent Jct. I-70 rest area. The direct area drains west. Dry washes are typical throughout the area. Access is proposed to come from state Hwy 191 ~1.5 miles south of Crescent Jct. then across BLM and SITLA lands to the location. DWR has some hawk nesting concerns if activities are delayed into spring, otherwise no concerns for this location. Grand County WELCOMES the proposed drilling. A pond lies along the access route at 600655 E 4309514 N NAD27 zone 12N. This pond holds runoff water for livestock use. The pad was staked cutting through an existing fence line. I recommended spinning the location ~15 degrees clockwise and running the location parallel to the fence. It also appears logical to move the new access road to the west side of the fence and eliminate all proposed new fence crossings. Cutting through this fence appears unnecessary at this time. These two items were discussed with the operator representative during the on-site and I later spoke with Mr. Rich McLure, BLM Moab. Mr. McLure will take these issues into consideration as he works on a right-of-way permit for Solaris to access this well. The location has been staked partially on BLM surface, which the Moab BLM office will also address in their right-of-way permit. Several, rather small, drainages will be crossed en-route to location where culverts will be necessary, and proper drainage diversion around the location will be needed. DWR and Grand County attended the on-site. SITLA was invited but chose not to attend.

Reviewer:	Mark L. Jones	Date:	August 21, 2003	

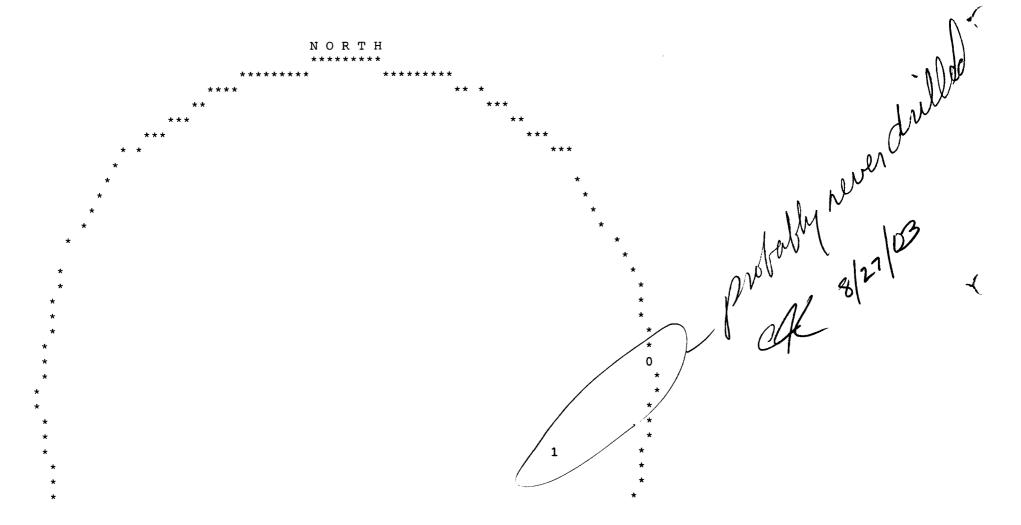
Conditions of Approval/Application for Permit to Drill:

- 1. Berm the location and pit.
- 2. Diversion ditches and culverts where necessary to control run-off along access route.
- 3. Divert all runoff around the location.
- 4. Fence three sides of the reserve pit while drilling, with the fourth side being fenced as soon as drilling completed.
- 5. Dust control on location and along access route as necessary.
- 6. Access route as per BLM right-of-way.
- 7. Pad layout and construction as per APD unless a change is made in the BLM right-of-way concerning the location and/or fence.

UTAH DIVISION OF WATER RIGHTS WATER RIGHT POINT OF DIVERSION PLOT CREATED TUE, AUG 26, 2003, 3:13 PM PLOT SHOWS LOCATION OF 3 POINTS OF DIVERSION

FEET FROM A POINT PLOT OF AN AREA WITH A RADIUS OF 5280 N 122 FEET, W 994 FEET OF THE SE CORNER, SECTION 32 TOWNSHIP 21S SL BASE AND MERIDIAN RANGE 19E

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FEET



UTAH DIVISION OF WATER RIGHTS NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAF	WATER RIGHT	QUANTITY CFS AND/OR AC-FT	SOURCE DESCRIPTION OF WELL INDIAMETER DEPTH YEAR LOG		VERSION DESCRIPTION N P CNR SEC TWN RNG B&M N P
0		11.2000 OR 8100.00 WATER USE(S): DOMESTIC MINING State of Utah School & Instit		N 600 W 1150	SE 33 21S 19E SL X-PRIORITY DATE: 10/16/1984 Salt Lake City UT 8
1		11.2000 OR 8100.00 WATER USE(S): DOMESTIC MINING State of Utah School & Instit		s 800 w 2700 5th Floor	NE 4 22S 19E SL X PRIORITY DATE: 10/16/1984 Salt Lake City UT 8
2		WATER USE(S): STOCKWATERING O	Unnamed Stream Reach THER (Price Fie 125 South 600 West		PRIORITY DATE: 00/00/1875 Price UT 8

SOLARIS EXPLORATION, CORP.

16800 IMPERIAL VALLEY DR., STE, 380

HOUSTON, TEXAS 77060

281-931-8933 281-931-8655FAX

Wiana Masan Lyn	
Wana Mason Lyn	nn l'aust
COMPANY: DATE.	8.26-03
FAX NUMBER: TOTAL NO 801-359 - 3940	O. OF TAGES INCLUDING COVER:
Roj Way Grant UTU 80497	PERENCE NUMBER:

RECEIVED AUG 2 6 2003

DIV. OF OIL, GAS & MINING

FORM 2800-14 (August 1985)

Issuing Office
Moab Field Office

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT RIGHT-OF-WAY GRANT SERIAL NUMBER UTU-80497

- A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761).
- 2. Nature of Interest:
 - a. By this instrument, the holder:

Solaris Exploration, Inc. 16800 Imperial Valley Dr., Suite 380 Houston, Texas 77060

receives a right to construct, operate, maintain, and terminate a road on public lands described as follows:

- T. 22 S., R. 19 E., SLM; Section 5, Lot 1, S2NE, N2SE.
- b. The right-of-way granted herein are a road 30 feet wide (travel way width of 18-20 feet), 7,100 feet long and a portion of a well site 100 feet by 100 feet. The total right-of-way contains 5.12 acres, more or less.
- c. This instrument shall terminate on December 31, 2033 unless, prior thereto, it is reliriquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.
- d. This instrument may be renewed. If renewed, the right-of-way shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.
- e. Notwithstanding the expiration of this instrument or any renewal thereof, early refinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3.

Rental: As specified in 43 CFR 2803.1-2.

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

Torms and Conditions:

- a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2800.
- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
- c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The map, Exhibit A, and plan of development, Exhibit B, attached hereto, are incorporated into and made a part of this grant instrument.
- e. Failure of the holder to comply with applicable law or any provision of this right-ofway grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workmanlike menner so as to ensure protection of the environment and the health and safety of the public.
- The holder shall conduct all activities associated with the construction, operation, and termination of the right-of-way within the authorized limits of the right-of-way.
- h. Prior to termination of the right-of-way, the holder shall contact the authorized officer to arrange a pretermination conference. This conference will be held to review the termination provisions of the grant.

IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant.

(Signature of Holder)

(Signature of BLM Authorized Officer)

(Title)

(Title)

(Effective Date of Grant)

ıl.

EXHIBIT B - PLAN OF DEVELOPMENT RIGHT-OF-WAY UTU-80497 ROAD TO SOLARIS EXPLORATION, INC. WELLS

Location:

T. 22 S., R. 19 E., Sec. 5, Lot 1, S2NE, N2SE

II. Road Use and New Construction for Drilling:

- 1. Approximately 1800 feet of the right-of-way in the N/2SE of section 5 is an existing road. The existing road will be used and maintained in its present alignment.
- Approximately 5300 feet of the right-of-way on BLM will be new construction. Initially
 the road will be constructed with a flat-bladed travel surface approximately 18-20 feet
 wide. The road width along hillsides will exceed 35 feet due to cut and fill slopes
 from road construction.
- 3. No construction will occur when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of 6 inches deep, construction will cease until the soils dry.
- 4. Fresh water will be sprayed on the road for dust control during construction and drilling operations.
- 5. A barbed wire gate will be installed in each fence crossing. The posts next to the gateway will be adequately braced to maintain the existing fencewire tension.
- 6. If Ilvestock are in the project area during drilling operations, cattleguards will be installed in the fence crossings (including the fence crossing the existing road at the eastern end of the BLM right-of-way, NESE section 5). When a cattleguard is installed, a barbed wire gate will be installed in the fence next to the cattleguard.

III. Road Upgrading For Production Operations:

- 1. The road will be upgraded and widened as necessary to accommodate production traffic. It is anticipated that an 18-20 feet wide travel surface would be needed for tanker trucks to haul oil from the well sites.
- 2. Surface disturbance for a typical ditched and crowned roadway on level ground would be approximately 30 feet wide, and surface disturbances along hillsides with cut and fill slopes would be approximately 40-50 feet wide.
- 3. If tanker trucks are used to transport oil production, cattleguards will be installed where the road crosses the fences (Lot 1 and NESE of section 5).
- The road will be upgraded to BLM Class III Road Standards. Alternate road upgrading and maintenance standards can be developed between the holder and BLM, as long there are provisions for meeting BLM goals and objectives for drainage and erosion control. Road surfacing with production gravel materials may be required if the road is utilized for yearlong production operations.

IV. Restoration After a Well is Plugged and Abandoned:

- 1. No reclamation will be required on the 1800 feet of the existing road (N2SE of section 5).
- The new road construction (approximately 5300 feet) will be reclaimed. Any road surfacing materials utilized on the roadway will be removed prior to surface restoration. The roadway will be recontoured to approximately the original contours of the land. All compacted soils will be scarified.
- 3. Waterbars will be constructed on all disturbed areas to the spacing and cross sections specified by the authorized officer. Waterbars will be constructed to simulate the imaginary contour lines of the slope.
- 4. The reclaimed roadway will be seeded with pure live seed (PLS): 4 pounds per acre of fourwing saltbush, 4 pounds per acre of galketa, and 4 pounds per acre of nuttalls saltbush. The seeding will be completed between October 1 and December 15.
- 5. The fences crossed during the new road construction will be reconstructed to meet or exceed the fence condition prior to road construction.

V. Other Requirements:

11

- 1. Solaris will inform all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, work that might further disturb such materials will be halted, and the BLM will be contacted.
- 2. Solaris will be responsible for weed control on the disturbed areas within the limits of the right-of-way. Solaris will be responsible for consultation with the authorized orner and/or local authorities for ecceptable weed control methods (within limits imposed in the grant stipulations).
- 3. The road right-of-way will be constructed over an existing right-of-way, Material Site Right-of-Way U026214, in T. 22 S., R. 19 E., section 5, N2SE and SWNE. In the event that gravel is excavated from the material site right-of-way in the future and the road is found to interfere with the gravel excavation, Solaris recognizes that it may be necessary to relocate portlans of the road, and Solaris will bear the costs of relocating the road.

Well name:

08-03 Solaris State 21-19 #32-16D

Minimum design factors:

Operator:

Solaris Exploration Corp.

String type:

Location:

Surface

Grand County

Project ID:

43-019-31399

Design parameters:

Collapse

Mud weight: Design is based on evacuated pipe.

8.400 ppg

Collapse: Design factor **Environment:**

H2S considered? Surface temperature: No 75 °F 81 °F

Bottom hole temperature: Temperature gradient: Minimum section length:

1.40 °F/100ft 375 ft

1.00

1.125

Cement top:

56 ft

Burst

Max anticipated surface

0 psi pressure: Internal gradient: 0.468 psi/ft Calculated BHP 187 psi

No backup mud specified.

Tension:

Burst:

Design factor

8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) **Buttress:** 1.60 (J) 1.50 (J) Premium:

1.60 (B) Body yield:

Tension is based on buoyed weight. Neutral point: 350 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 4,900 ft Next mud weight: 9.000 ppg

2,291 psi Next setting BHP: 19.250 ppg Fracture mud wt: 450 ft Fracture depth: Injection pressure 450 psi

Drift Est. End True Vert Measured Run Segment Nominal Weight Grade **Finish** Depth Depth Diameter Cost Size Length Seq (ft) (in) (\$) (ft) (lbs/ft) (ft) (in) 3476 400 400 8.796 J-55 ST&C 1 400 9.625 36.00 Tension **Burst Tension Tension Burst** Collapse Collapse Burst Run Collapse Strenath Design Design Load Design Load Strength Seq Load Strength **Factor Factor** (kips) (kips) **Factor** (psi) (psi) (psi) (psi) 394 31.25 J 12.6 187 3520 18.83 1 175 2020 11.58

Prepared

DKD

Utah Dept. of Natural Resources by:

Date: August 28,2003 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 400 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Burst strength is not adjusted for tension.

Well name:

08-03 Solaris State 21-19 #32-16D

Operator:

Solaris Exploration Corp.

String type:

Production

Project ID:

Location:

Grand County

43-019-31399

Design parameters:

Collapse

Mud weight: Design is based on evacuated pipe.

9.000 ppg

Minimum design factors: Collapse:

Design factor

1.125

1.00

Environment:

H2S considered? No Surface temperature: 75 °F Bottom hole temperature:

141 °F 1.40 °F/100ft Temperature gradient:

Minimum section length: 375 ft

Burst:

Design factor

Cement top:

1,533 ft

rod stip as proposed

Burst

Max anticipated surface

pressure: Internal gradient: Calculated BHP

0.468-psi/ft. 2,198 psi

0 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) 1.60 (J) **Buttress:** 1.50 (J) Premium:

1.60 (B) Body yield:

Tension is based on buoyed weight. Neutral point: 4,128 ft

Directional Info - Build & Hold

Kick-off point 2550 ft Departure at shoe: 633 ft 3 °/100ft Maximum dogleg:

19.1° Inclination at shoe:

Run Seq	Segment Length (ft)		Nominal		End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
		Size (in)	Weight (lbs/ft)	Grade					
1	4801	7	23.00	J-55	LT&C	4700	4801	6.25	25191
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2198	3270	1.49	2198	4360	1.98	93.5	313	3.35 J

Prepared

DKD

Utah Dept. of Natural Resources by:

Date: August 28,2003 Salt Lake City, Utah

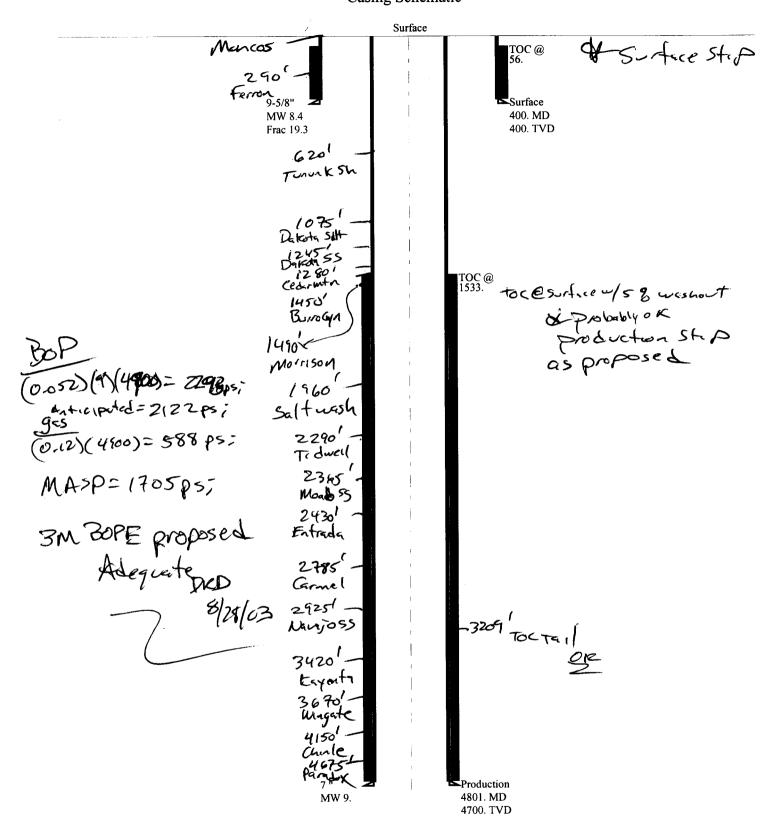
ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 4700 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

___ 08-03 Solaris State 21-19 #___-16D Casing Schematic





DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor

Robert L. Morgan Executive Director

Lowell P. Braxton Division Director 1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone (801) 359-3940 fax (801) 538-7223 TTY www.nr.utah.gov

August 28, 2003

Solaris Exploration, Inc. 16800 Imperial Valley Dr., Ste 380 Houston, TX 77060

Re:

State 21-19 #32-16D Well, 122' FSL, 994' FEL, SE SE, Sec. 32, T. 21 South, R. 19 East, Bottom Location 660' FSL, 660' FEL, SE SE, Sec. 32, T. 21 South, R. 19 East,

Grand County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-019-31399.

Sincerely,

Associate Director

telFlunt

pab **Enclosures**

cc:

Grand County Assessor

SITLA



Operator:		Sola	ris Exploration, Inc.	
Well Name & Numb	oer	State	21-19 #32-16D	
API Number:		43-0	19-31399	
Lease: ML-47441				
Location: Bottom Location:	SE SE SE SE	Sec. 32 Sec. 32_	T. 21 South T. 21 South	R. 19 East R. 19 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
- 5. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

Page 2 Conditions of Approval API# 43-019-31399 August 28, 2003

- 7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
- 8. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.
- 9. Surface casing shall be cemented to the surface.
- 10. If drilling is not completed by 12/31/03, Solaris will need to get a new water permit.
- 11. Production casing cement strip (as proposed to ±400')

	FROM:
Desten Dancet	Lynn Faust
OMPANY:	8-Z8-03
301-359-3940	TOTAL NO. OF PAGE: INCLUDING COVER
	YOUR REFERENCE MIMBER: + St 21-19 #32-1615

RECEIVED AUG 2 8 2003

WELL PLANNING REPORT

SOLARIS EXPLORATION

STATE 21-19 #32-16D

8/28/03

AUG-28-03

713-464-336B

T-463 P 002/005 F-71:

WELL PROFILE DATA

SOLARIS EXPLORATION STATE 21-19 #32-16D

02:51PM

8/28/03

p.3

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	latitude (FL)	DEFARTURE (FL)	VERTICAL SECTION	reg
2000.00	0.000	0.000	2000.00	0.00	0.00	0.00	202.0
2485.03	0.000	0.000	2455.93	0.00	0.00	0.00	
2500.00	0.899	31.833	2500.00	0.30 N	0.19 E	0.36	
2500.00	2.899	31.833	2598.94	3.12 N	1.93 E	3.67	
2700.00	4.899	31.833	2899.79	8.69 N	6.62 E	10.47	
2800.00	5.599	31.833	2799.17	17.62 N	10.94 E	20.74	
2900.00	8.599	31.833	2898.21	29.30 N	18.19 E	34.49	
3000.00	10.599	31.833	2996.72	43.91 N	27.26 E	51.68	
3100.00	12.699	31.833	3094.57	61.42 N	38.13 E	72.30	
3200.00	14.699	31.833	3191.83	81.63 N	50.80 E	96.32	
3300.00 3400.00 3458.03 4000.00	18,890 18,890 20,000 20,000	31.833 31.833 31.833 31.833	3287.80 3382.98 3434.85 3946.95	105.10 N 131.21 N 146.78 N 305.14 N 538.00 N	65.25 E 81.46 L 91.13 K 169.43 E 134.00 E	123.71 154.44 172.77 369.16 633.25	2.000 0.000

The Degleg Severity is in Degrees per 100.00 Feet Vertical Section was calculated along an Azimuth of 31.833° (Grid)

Based upon Minimum Curvature type calculations. At z Measured Depth of 4801.38 Feet, the Bottom Hole Displacement is 533.25 Feet, in the Direction of 31.833° (Grid)

Aug 28 03 03:06p Reliant Exploration, Ltd. 281-931-8655 p.4

AUG-28-03 02:51PM FROM-P P 713-464-3366 T-463 P 003/005 F-711

WELL PROFILE DATA

SOLARS EXPLORATION STATE 21-19 #32-16D

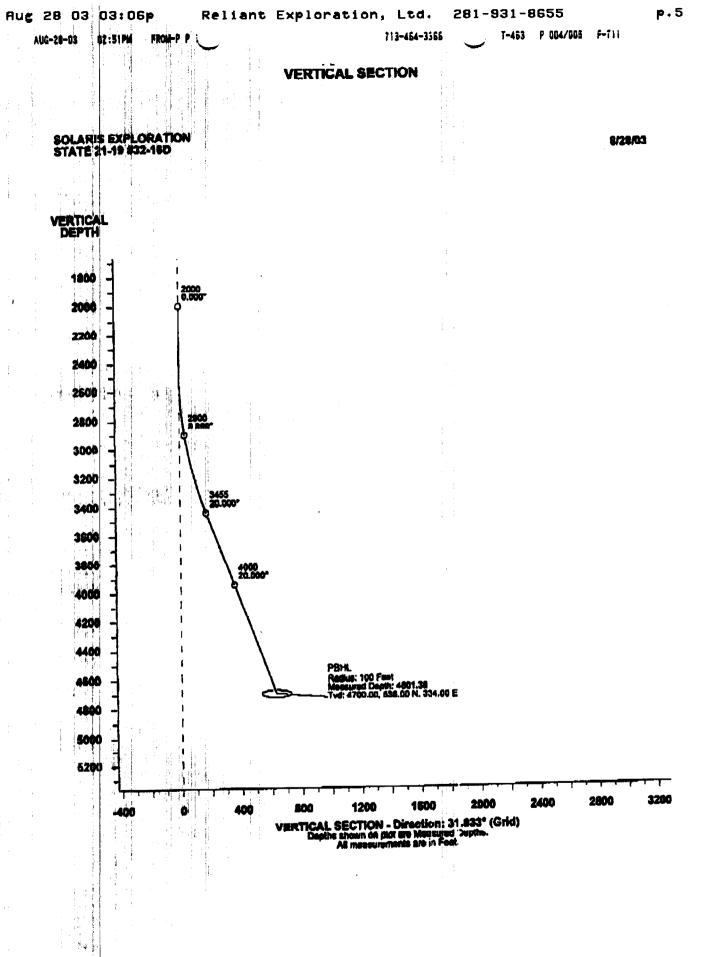
\$/2**1/0**3

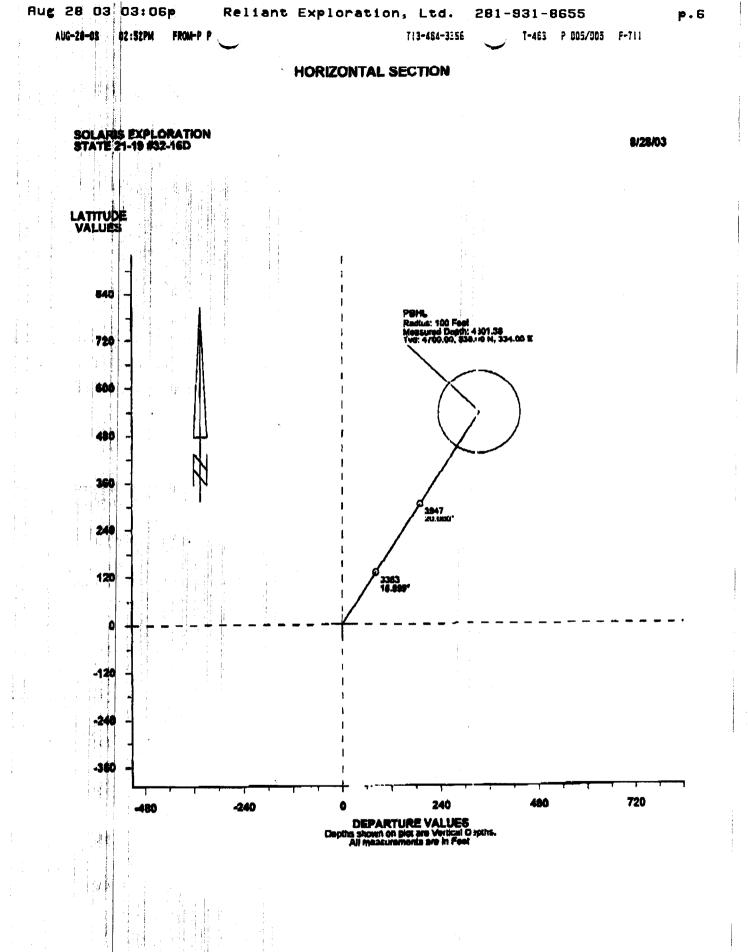
TARGET INFORMATION

TARCET VERTICAL LATITUDE DEPARTURE VERTICAL TARGET NUMBER DEPTH (PL) (PL) SECTION RADIUS

1 4700.00 538.00 N 334.00 E 633.25 100.00 PBHL

Vertical Section Direction = 31.833* (Grid)



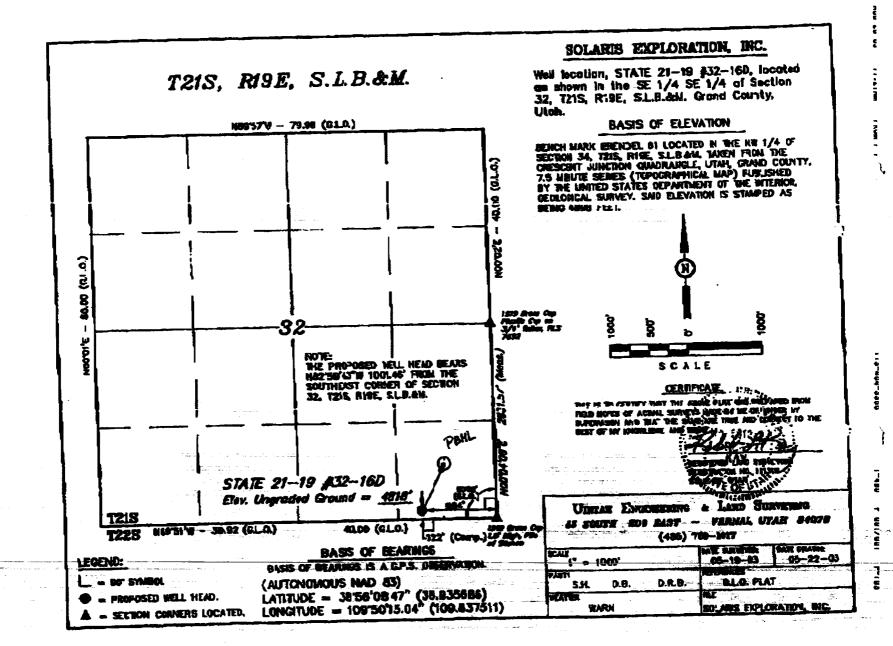


PACSIMILE 7	TRANSMITTAL SHEET	
Dutin Daucet	FROM: Lynn Faust	
Die of UTAH ail & Has	B-28-0	
801-359 3940	TOTAL NO. OF PAGES INCLUDIN	G COVER:
801-538-5281	YOUR REPERENCE NUMBER:	
□ urgent □ for review □ please	COMMENT DPLBASE REPLY	PLEASE RECYCLE
Directional St	uruey	
Directional St after receives	y ple Ca	er
	: •	

RECEIVED

AUG 2 8 2003

DIV. OF OIL, GAS & MINING



FACSII	MILE TRANSMITTAL SHRET		i pri i	1
TO:	FROM:			_
Diana Mason	Lynn Faust	i <u>ii </u>		
COMPANY.	DATE:			
State of Utah	8/29/2003	<u> </u>		_
FAX NUMBER, 801- 5 39-3940	TOTAL NO. OF PACES INCL.	IIDING COVER:		-
	YOUR REPERENCE NUMBER	<u> </u>		
Re: Application to Drill				_
□ IIRGRNT □ FOR REVIEW □	PLEASE COMMENT PLEASE REP	PLY PLEA	SĽ RECYCI	B
Diana,				
Please find Solaris' new Applicato follow.	ation for Solaris State 21-19 #19-16	. Designation	of Operat	OF
Call with any questions.		+ 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
Thanks,				
Lynn				

RECEIVED

AUG 2 9 2003

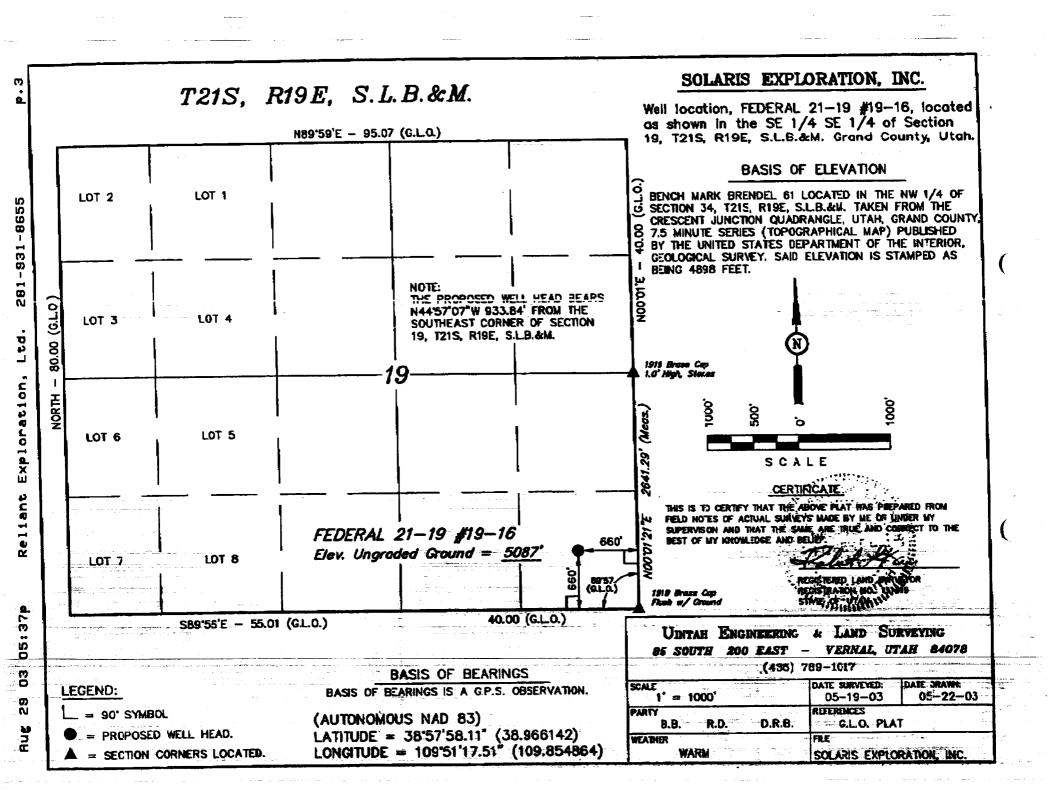
DIV. OF OIL, GAS & MINIMO

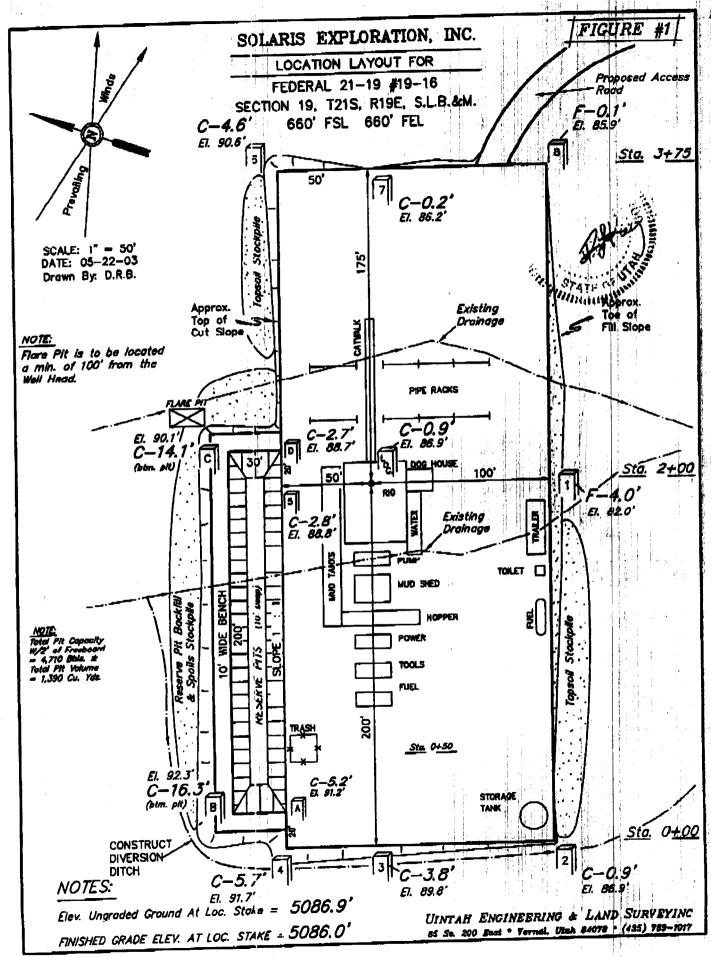
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

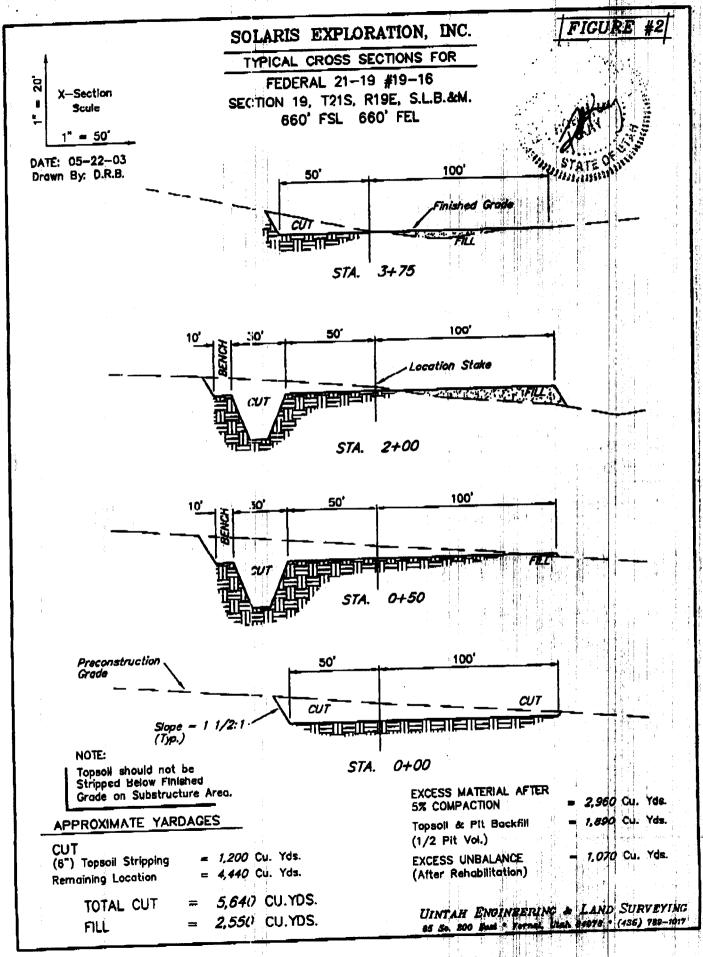
	-
-сжи	25

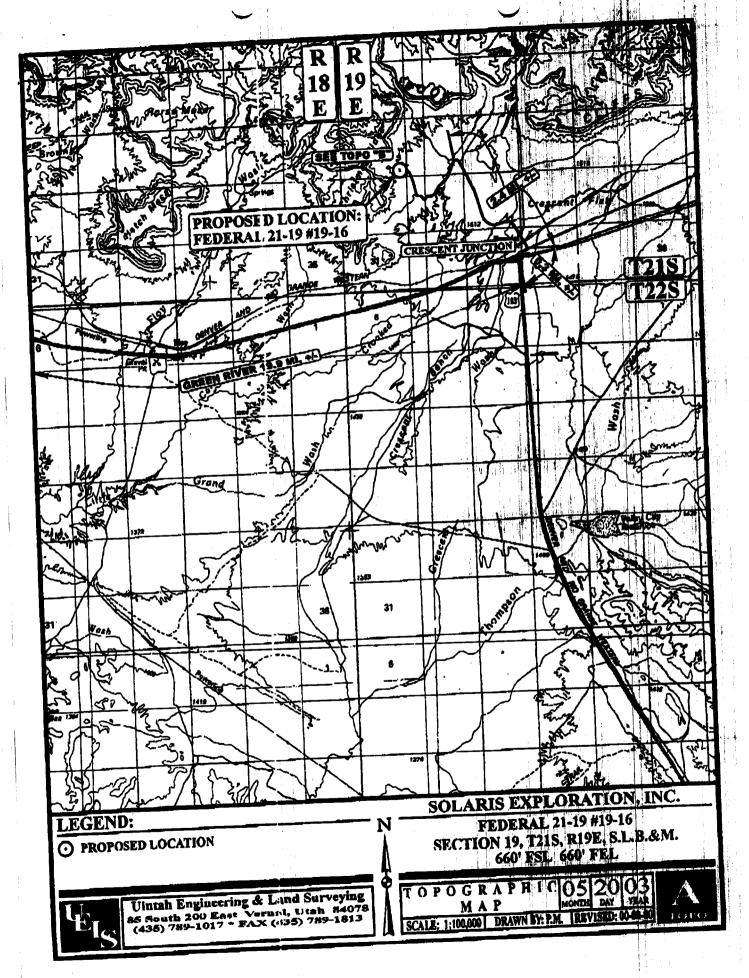
		D	IVISION OF OIL	, GAS AND MINING		ight changes)
		PPLICATION FOR	PERMIT TO	DRILL	5, MINERAL LEASE HO: USA UTU-76491	EEE.
					7. IF HOMM, ALLOTTEE C	OR TRUSE NAME:
IA, TYPE OF WO	kaki Di			•	A. UNIT OF CA AGREEMEN	IT NAME:
8. TYPE OF WEL	ı: OK 🗹	GAS OTHER Circ	ectional SING	SLE ZONE MULTIPLE ZO	ONE L	
2. NAME OF GIFE					State 21-19#1	
Solaris Exp		1 - 91500		PHONE NUMBER:	10. FIELD AND POOL, OR	
16800 Imer	ial Valley D	r , Houston	TX 770	60 (281) 931-893	3 Undesignated 11. OTRACTR, SECTION.	TOWNEHIP, RANGE
4. LOCATION OF				i .	MERIDIAN:	
AT SURFACE:	660 FSL,	660 FEL		40 TO48 B106	sw s	BE SE
AT PROPOSED	PRODUCING ZO	NE: BHL 660 F\$L, 600	FEL, C SE SE S	Sec. 19, 1215, R19E	SEC. M. TH	
14. DISTANCE IN	MILES AND DIRE	CTION FROM NEAREST TOWN OR	POST OFFICE:		12 COUNTY:	12. STATE: HATU
			:		Grand	TO THIS WELL:
16. DISTANCE TO	MAREST PRO	PERTY OR LEASE LINE (PEET)	16, NUMBER OF	FACRES IN LEASE: 1520.8		40
660'			19, PROPOSED		20, SCHO DESCRIPTION	
18. DISTANCE TO APPLIED FOR	NEAREST WEL E) ON THIS LEAS	L (DRILLING, COMPLETED, OR E (FEET)	19, PROPOSED	4.90		a la ca
			22. APPROXIM	ATE DATE WORK WILL START:	23. ESTIMATED DURATION:	
5087' GR		ER DF, RT, GR, EYC.):			30 days	
3007 GR						
24.		PRCP	OSED CASING A	ND CEMENTING PROGRA		2 gr 1
5IZE OF HOLE	CASING SIZE	, GRADE, AND WEIGHT PER POLIT	SETTING DEPTH	CEMENT TYPE,	QUANTITY, YIELD, AND SLURRY WE	. []
12 1/4"	9 5/8"	J-55 36#	400	185 Sx Class "G",	1.18 CFS 15.2 P	
8 3/4"	7"	J-55 23#	4,900	Lead 125 Sx Blend,	3.82 CFS, 11.0 pr	og. Tall 375 SX
				50/50 pox, 1.21 CFS	14.4 ppg	
	 	••				
	 					
	 					3 4 .
	<u></u>					
26 .			ATTA	CHMENTS		1 d 1 d
		TTACHED IN ADCORDANCE WIT 41	THE LITAH CIL AND GAS C	CONSERVATION GENERAL RULES:		
WELL P	LAT OR MAP PR	EPARED BY LICENSED SURVEY(R	OR ENGINEER	COMPLETE DRILLING PL		
	ICE OF DIVISION	OF WATER RIGHTS APPROVAL *O	R USE OF WATER	FORM S, IF OPERATOR I	C PERSON OR COMPANY OTHER TH	AN THE LEASE OWNER
				Vice Presid	lent, Solaris Exploration,	Corp.
name (Please	E PRINT) LYDI	Faust - 181-43	8433	1016		
SICNATURE _		I Fair	s t	DATE	3-28-03	
-					•	() ()
(This space for \$	tyte yee enly)					
				•		
API NUMBER A	SSICNED			APPROVAL:		
	.				RECE AUG 2	EIVED
			(See Inger	illom on Reverse Side)		
(11/2001)			feet and ac		AUG 2 :	9 2002

DIV. OF OIL, GAS & MINING









	FACSIMILE TRANSMITTAL SHEET	1 to	
TO:	PROM:		-
Diana Mason	Lynn Faust		
COMPANY.	DATE:		+
State of Utah	8/29/2003		
рах Numbers; 801 -6 39-3940	TOTAL NO. OF PAGES INCLUDING	G COVER:	
Re: Application to Drill	Your reference number:		
URGENT POR REVIEW	7 D PLEASE COMMENT D PLEASE REPLY	D PLEASU RE	CYCLE
Diana,			
Please find Solaris' new / to follow.	Application for Solaris State 21-19 #19-16. Des	ignation of Op	erator
Call with any questions.			
Thanks,			
Lynn			

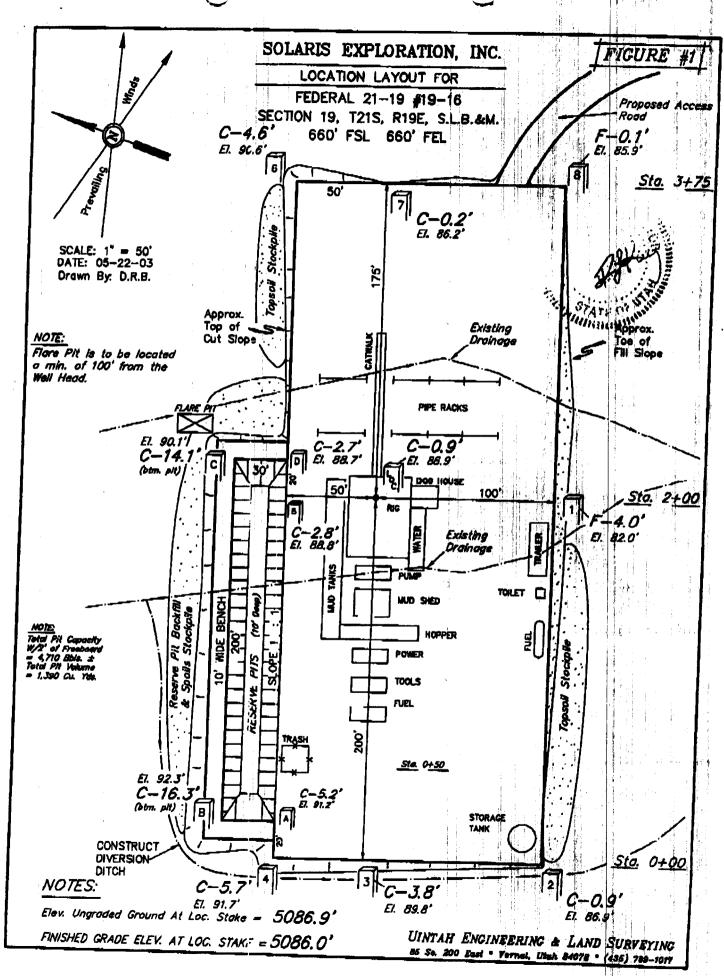
RECEIVED SEP 0 2 2003

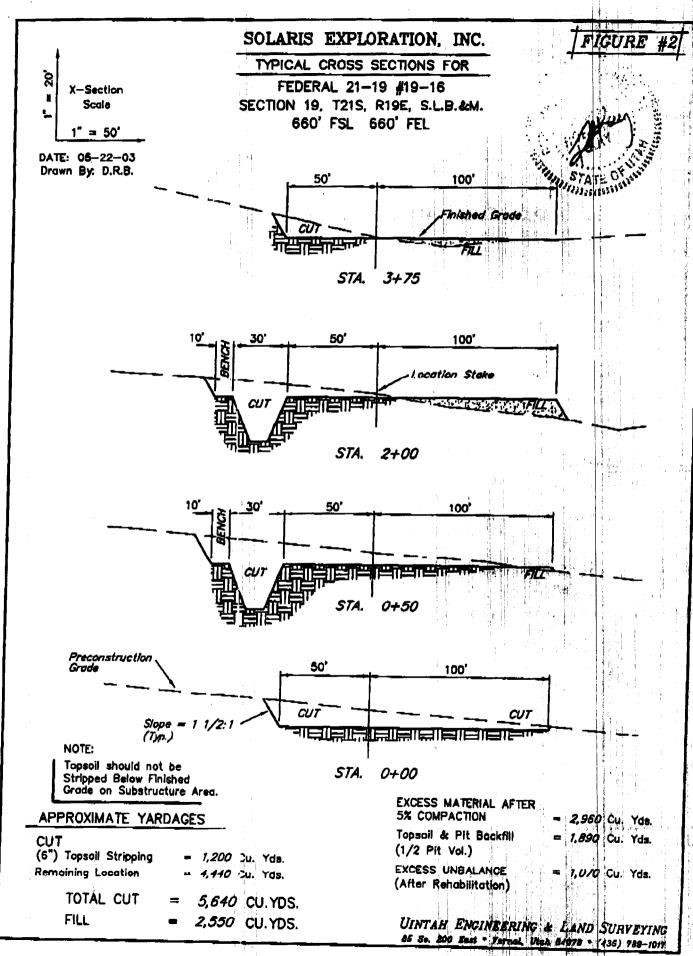
DIV. OF OIL, GAS & MINING

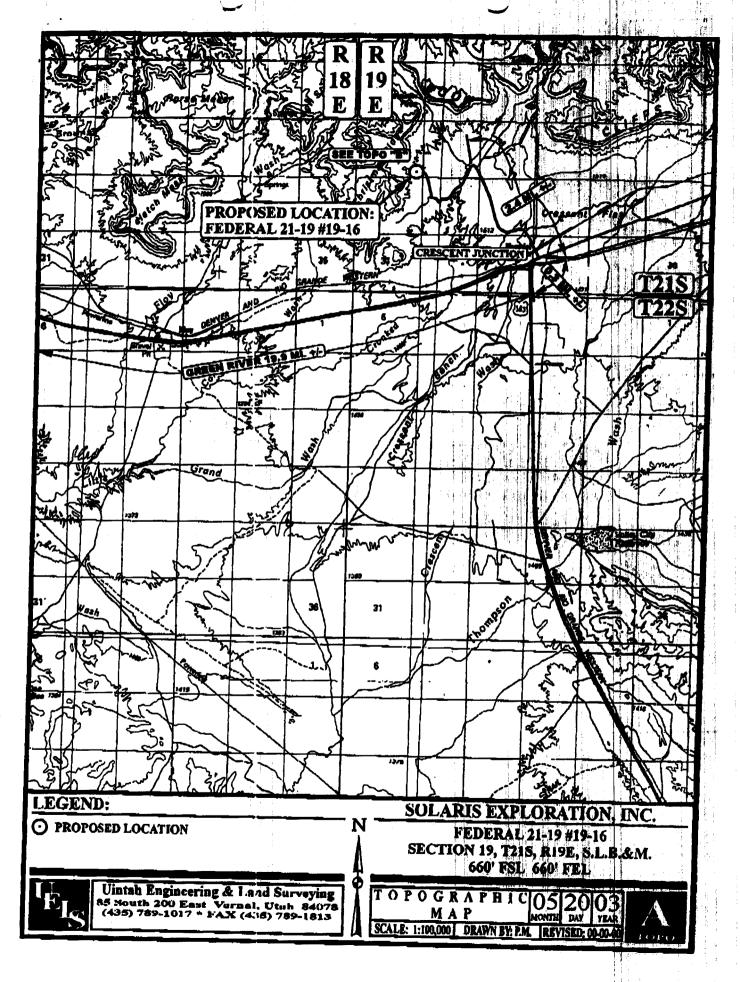
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

EA	~	-
PU	нω	13

									(P	nightight	changes)
		APPLICATION	FOR F	PERMIT T	O DRILL				MERAL LEAGE I	1 17 1	e surrace:
1A TYPE OF	MORK;	DRILL REEN	TER 🗌	DEEPEN	•0				MDIAN, ALLOT		HE F
B. TYPE OF V	vell: OIL	GAS OTHE	Directi	onal sii	NGLE ZONE	MULT	IPLE ZON	1E 8. UN	IT at CA AGREE	MENT NA	Me;
3. NAME OF O	perator: coloration,	lan.							ANNE and N		
		ING. S}e 3\$ 0				I mirror and		St	te 21-19	# 19-16	B
16800 ime	erial Valley	Dr Houston	a ti	TX 77	7060	(281) 93			ELD AND POOL docignete		CAT:
	F WELL (FOOT)		:			<u> </u>		11.0	NOTE SECTION	(2) = 4 A	SHIP, RANGE,
	. 660 FSL							sw		SE	SE
		ZOME: BHL 660 FSL,			Sec. 19, 12	21S, R19	E	50	م رھا -		5, R 19 E
14. DISTANCE	N MILES AND D	RECTION FROM NEARIST TO	W OR POST	OFFICE:					KINTY		12 STATE:
Apero X.	لنصف	Do tres co os	Cre	stent!	Zunctio	40.0		Gra	ind		UTAH
660 ⁾	O MEANER I PR	OPERTY OR LEASE LINE (FEE) .:	10. NUMBER C	OF ACRES IN LEA	8E:		17. NUMBER	OF ACRES ASS	IGN 10 TO	THIS WELL
16, DISTANCE 1	ID NEAREST WE	LL (OMILLING, COMPLETED, O	 -	TH. PHOPOSE	N. Olimpia	1:	520.80				40
APPLIED FO	R) ON THIS LEA	SE (FEET)	•	13.71.00	DEFIN,		4.900	20. SOND DE			
21. ELEVATION	S (SHOW WHET	HER DF, RT, GR, ETC.):		22. APPROXIM	ATE DATE WORK	WILL STARY:		23. ESTRATE	pplied For	- -	
5087' GH	!							30 days			
										- 14	······································
SIZE OF HOLE	Carring	P. GRADE, AND WEIGHT PER F		CASING A	ND CEMEN	·					. j
12 1/4"	9 5/8"	J-55 36#	DOT SE	TTING DEPTH	407.0		TYPE, OLLA	MITTY, YIELD, A	NO BLUKKY W	EKSHIT	
8 3/4"	7"		_	400	1-0 00 00			1.18 CFS	15.2 F	PG	
0 3/4	-	J-55 23#		4,900	Lead 125			.82 CFS,	11.0 p	φg,	Tail 375 SX
	ļ				50/50 pox,	1.21 CF	S	14.4 ppg			
							•				
							_				
								pro e	1		
25.		,		ATTAC	HMENTS			-			
VERIFY THE FOL	OWING ARE AT	TACHED IN ACCORDANCE WIT	H THE UTAH							_ -	
_					MOERYATION GE	NERAL RULES	2 .	- Hi			
		PARED BY LICENSED SURVEY			₩ com	PLETE DRILLIN	IG PLAN		į		
EVIDENCE	FOF DIVISION O	F WATER FUGHTS APPROVAL	OR USE OF	WATER	FORM	5, IF OPERAT	OR IS PERS	AH OR COMPA	NY OTHER TICA	N THE LE	ase owner
NAME (PLFASE DI	Lynn l	Fallst - co. co.						_			
TOTAL PLANT P	210(T) <u>-2 · (1 /</u>	-aust - 281-93	- 34:	33	TITLE	Vice Pre	sident, S	Solaris Ex	pioration,	Corp.	
BIONATURE		Laurt			DATE		8-2	8-03			
in space for State	use only)										
											:
Di Militabion a serie								DEC	EIV/E	ח	
Pi Number assk	-MED:				APPROVAL:			HEU	ÉIVE		
100 41								SEP	0 2 200	3	
2001)				(300 Instructions	01 Reverse 3ide)						,
							-	W OF OIL	GAS & N	aining)







DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company:	SOLARIS EXPL	ORATION CORP	
Well Name:	STATE 21-19 #32	2-16D	
Api No: 43-019-31	399	Lease Type:S	ГАТЕ
Section 32 Towns	hip 21S Range 19	E County C	GRAND
Drilling Contractor		RIG #	XL 14
Time	09/09/03 6:00 PM ROTARY		
Reported by	BILL BRUCKNE	R – RAWHIDE W	ESTERN
Telephone #	1-307-921-9265		
Date 09/11/2003	Signed:	CHD	

006

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator.	
-----------	--

Solaris Explanation Corp. Operator Account Number: N 2236

Address;

16800 Imperial Valley Dr. Sta 380

div Houston

state Texas zip 77060

Phone Number: <u>281-9-31-</u>8933

Well 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County	
43-019-31399	Solaris State	21-19 # 32-160	Swsest	32	215	198	GRAND	
Action Code	Current Entity Number	New Entity Number		pud Date		Entity Assignment Effective Date		
A	99999	13903	9-	10 -0	3	_	129/12	
Comments: W	INGT			<u></u>		/	<u>a 405</u>	

Well 2

API Number	Well	Name	99	3 00	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	s	pud Dei	•	Entit Ef	y Assignment fective Date
mments;							

Well 3

API Number	NeW !	lame	QQ	Sec:	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	s	pud Da	te		y Assignment fective Date
omments:							

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

Name (Please Print)

9-23-03

(5/2000)

RECEIVED

SEP 2 3 2003

DIV. OF OIL, GAS & MINING

L

	P.A	CSIMILE TRANSMI	ITAL SHEET	
TO:	****	FROM:		
Car	ino Danie	.Oa	ynn Faust	
COMPANY:		DATE:		
	5-W		3-30-0	4
FAX NUMBER:			NO. OF PAGES INCLUDIN	
801	359 39	140	3	
RE:			REPERENCE NUMBER:	
Well	Completi	21/		
1 urgent	E FOR REVIEW	D PLEASE COMMENT	☐ PLEASE REPLY	PLEASE RECYCLE

RECEIVED

MAR 3 0 2004 DIV. OF OIL, GAS & MINING

		DEPA	RTMENT Q	E OF UT. NATURAL		ES			E D REPORT ∐ ht changes)	l FOR
7			ION OF CI					5. LEASE	DESIGNATION AND	EFEAL NUMBER
***								UNC.	— 나~[식식] 씨시MOTTEE OR 11	MAE WALL
					ETION F	REPORT A	ND LOG			WE THE
ia. Type of wel	Ŀ	WELL Z			DRY 🛄	OTHER _		7. UNIT of	CA AGREEMENT NA	ME
b. TYPE OF WOR	RK:	DEEP. (*	7 PF.	_	netr —			6. WELL	WHE and NUMBER:	******
WELL A	HOREZ LATE.	EN C	SE-		RESVA	OTHER			21-19(#	32 - KD
Solar	ris Ex	plocat	ion T	-nc				0. APINU	019-313	1.99
ADDRESS OF Q	PERATOR:	•	•		20.11		ONE NUMBER:	10 FIELD	ND POOL, OR WILD	
LOCATION OF	WELL (POOTAGE	<u>(</u>) allo	H 0 × 3	-44-74	TX	5 1000	<u> </u>		i lolo at TR SECTION TOWN	SHIP RANGE
AT BURFACE:	iza F	5L, 994	FEL, S	esia	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			E SE 32	
AT TOP PHOU	UCINU INTERVA	L REPORTED BE	LOW:					402	JA	w/7 (-/
AT TOTAL DEP	TH: 05.5	-6 FS	10699	FEL	/ph s	Survey/DX	Y 1	12 COUN		13. STATE
4. DATE SPUDDE		UNIE I.II RNAC			/	- 07			and	U
9-10-0	03	9-26-	03			ABANDONED []	READY TO PROD	uce 🔲 🔭 "	LEVATIONS (DP, RIG	s, RT, GL):
B. TOTAL DEPTH	,,,,,,,	-, ,	19. PLUG BACK			20. IF MULTIPL	E COMPLETIONS, HO	W MANY? 21. 0	EPTH BRIDGE ME)
400. 2. TYPE ELECTED	3 TVD LAG	MECHANICAI LO	CS RIM (Subse)	IVD		 _	<u>5</u>	I	TV	D
PE/CO	mbined	Print	PE/HI	PES IN	D IMAG.	FR/GR WAS	MELL CORED?	NO 🔀	YES [] (8ub	mit analysis)
PAT)	1)SIM	,	•				THUN TEC	NO 🛄	YES (Sub	mit report)
L CASING AND L	MAR RECORD	Report all phino	a set in well			DIREC	TIONAL SURVEY?	NO _	Agt X (8rp	mit copy)
HULL SIZE	SIZE/GRAD			P (MD)	SOTTOM (MD)	STAGE CEMENT	ER CEMENT TYPE A	SLURRY	T	
		710011				DEPTH	NO. OF SACKS	VOLUME (BOL	CEMENT TOP	AMOUNT PL
	<u> </u>							ļ		
<u></u>	<u> </u>							+		-
	["					 	-			
										
	ı	- I								
	<u> </u>						•			
K. TURING RIEGOI SIZE	DEFTHSET	T(MD) PACK	ER SET (MD)	SIZE	DEFTI	H SET (MO) PAC	KER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET
\$1ZE	DEPTH SE	T (MD) PACK	ER SET (MD)	SIZE	DEFT		XER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET
\$1ZE	DEPTH SET	T(MD) PACK	ER SET (MD)			27. Pan		SIZE NO. H		
SIZE FORMATION 1	DEPTH SET					27. Pan	PORATION RECORD			
SIZE FROGUCING IN FORMATION)	DEPTH SET					27. Pan	PORATION RECORD		DLES PERFOR	ATION STATUS
SIZE R. PRODUCING IN FORMATION 1	DEPTH SET					27. Pan	PORATION RECORD		OLES PERFO	ATION STATUS Squeezed Squeezed Squeezed
SIZE R. PRODUCING IN PORMATION)))	DEPTH SET	TOP (MD)	воттом (мк.)			27. Pan	PORATION RECORD		OLES PERFOR	IATION STATUS Squeezed Squeezed
SIZE R. PRODUCING IN FORMATION 3 1) 1. AGID, PRACTUR	DEPTH SET	TOP (MD)	воттом (мк.)			27. Pulso OM (TVD) RYTER	PORATION RECORD RVAL (Top/Bot - MD)		OLES PERFO	ATION STATUS Squeezed Squeezed Squeezed
SIZE R. PRODUCING IN PORMATION (1) (1) (1) (2) (3) (4) (4) (5) (7) (6) (7) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	DEPTH SET	TOP (MD)	воттом (мк.)			27. Pulso OM (TVD) RYTER	PORATION RECORD		OLES PERFO	ATION STATUS Squeezed Squeezed Squeezed
SIZE R. PRODUCING IN FORMATION 1) 1) 1) 1) 1. AGID, PRACTURE	DEPTH SET	TOP (MD)	воттом (мк.)			27. Pulso OM (TVD) RYTER	PORATION RECORD RVAL (Top/Bot - MD)		OLES PERFO	Squeezed
SIZE R. PRODUCING IN FORMATION 1) 1) 2) 1) 1) 1) 1) 1) 1) 1)	DEPTH SET	TOP (MD)	воттом (мк.)			27. Pulso OM (TVD) RYTER	PORATION RECORD RVAL (Top/Bot - MD)		OLES PERFO	ATION STATUS Squeezed Squeezed Squeezed
SIZE R. PRODUCING IN FORMATION 1) 1) 1) 1) 1. AGID, PRACTURE	DEPTH SET	TOP (MD)	воттом (мк.)			27. Pulso OM (TVD) RYTER	PORATION RECORD RVAL (Top/Bot - MD)		OLES PERFOR Open Open Open Open	ATION STATUS Squeezed Squeezed Squeezed
A. PRODUCING SI FORMATION (1) (2) (3) (3) (4) (5) (6) (7) (7) (8) (8) (9) (9) (9) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	DEPTH SET	TOP (MC)	воттом (мк.)		V6) sorre	27. Pulso OM (TVD) RYTER	PORATION RECORD RVAL (Top/Bot - MD)		OLES PERFOR Open Open	ATION STATUS Squeezed Squeezed Squeezed Squeezed
SIZE R. PRODUCING IN PORMATION 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	DEPTH SET TTERVALS NAME INTERVAL TAGNETHYR TAGNETH	TOP (MC)	BOTTON (ME)	TOP (f	V6) sorre	29, Pulm OM (TVD) INTER AMOUNT AN	PORATION RECORD RVAL (TOP/BUT - MID) D TYPE OF MATERIAL	S228 NO. H	OLES PERFOR Open Open	ATION STATUS Squeezed Squeezed Squeezed Squeezed

RECEIVED

MAR 3 0 2004

DATE FIRST PE	2000100				MIDIVAL A (As as	Own in Hell (196)				
DATE PROFIP	HODUCED;	TEST DATE:		HOURS TES	T\$0;	TEST PACOUCTI	ON OIL-BEL:	GAS-MCF:	WATER - BOL:	PROD, METHOD
CHOKE SIZE:	TRO. PRESS.	CHIC PRESS.	API GRAMIY	ary-ara	GAS/OIL RATIO	24 HR PRODUCT	ON CIL-BOL:	GAS - MCF:	WATER - BOL:	INTERVAL STAT
					HTERVAL B (As ob	rvet in hom (20)				
DATE FIRST PR	NODUCED:	YEST DATE:	· ·	MOURE YEST		TEST PRODUCIN	OK - 981;	GAS - MCF:	WATER - MOL	PROD. METHOD
CHOICE SIZE:	TSG. PRESS.	CSG. PRESS.	API GRAVE Y	BTU-GAS	GASIOIL RATIO	24 HK PRODUCTI RATES: →	ON ON - BBC:	GAS - MCF:	WATER - BELL	INTERVAL STATI
					NTERVAL C (As she			<u> </u>		
MTE FIRST PR	OPUCED:	TEST DATE:		HOURS TEST		TEST PRODUCTIO	ON OIL-BBL:	GAS - MCP:	WATER - BOL:	PRÓD. METHOD:
HORE SIZE:	TBG. PRESS,	CSG. PRESS.	API ORAVITY	BTU-GAS	GARAGIL RATIO	RATES: → 24 HR PRODUCTN RATES: →	OK ÖIL-BEL:	GAS - MCF;	WATER - BBL	INTERVAL STATE
_	<u> </u>			<u></u>						
TE MIST MI	OOUCED:	TEST CATE:		HOURS THET	TTERRYAL D (As one ED:	TEST PRODUCTIO	N DE - BEI	GAB - MCF:	Training	
OKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVIT	BTU-GAS	GASCON MATIO	RATES: → 24 HR PRODUCTIO	ſ		WATER - BEL	PROD. METHOD:
	H OF GAS (Sold,)					RATES	M CTL - BBL:	GAB - MCP:	WATER - BBL:	INTERVAL STATI
led, cushion ve Formation	, ,	90 Bot	lam		m tests, including de	Oth injervel				
		(E) (E	<u> </u>					Name	(M	Top leasured Depth)
77	Wild the torogon			Pota.	esly A	b and o	ned -	No P	wodu	-t:01)
II (PLEASE PI	RINT)	400	Eagre	7		TITLE	VP			
MATURE			Far	at		DATE	3 -:	0-04		-
 complete drilling he recomple M 20: Show M 24: Cerne Utah 1594 Box 1 	be submitted ng or plugging orizontal letera iting to a differ the number o int Top — Show i Division of Oi West Nove T 145801 Lake City, Uta	a new well to from an ext ent producing f completions how reported it. Gas and Mill comple, Guite	isting well corn i formation if production i top(s) of owner ning 1210	e messured .	iditing hydrocari	slously plugged pering an extent con exploratory two or more for ed (CIR), calcula	ng wolf bore bel holes, auch as o mations, ted (CAL), ceme	well ow the previous core samples a	nd stratigraphic 3L), temperaturi	tests
								MAR 3 0	2004	
							DIV	OF OIL, GA	S & MININC	ì

Mar 30 04 12:43p

STATE OF UTAH DIVISION OF OIL, GAS AND MINING OIL AND GAS PROGRAM

PHONE CONVERSATION	DOCUMENTATION FORM
Conversation Pertains to:	□ Copy? 🗖
■ WELL STATE 21-19 (32-16D)	□ OTHER
Section 32 Township 21S Range 19E API Number 43-019-31399	
Topic of Conversation: DIRECTIONAL SURVEY RUN Date of Phone Call: 4/5/2004 Time:	
DOGM Employee (name): CAROL DANIELS Spoke with:	□ Initiated Call? 🗵
Name: LYNN FAUST Of (company/organization): SOLARIS EXPLORATION CORP	☐ Initiated Call? ☐ Phone: (281) 931-8933

Highlights of Conversation:

LYNN FAUST IS GOING TO SEND IN THE DIRECTIONAL SURVEY.

STATE OF UTAH DIVISION OF OIL, GAS AND MINING OIL AND GAS PROGRAM

PHONE CONVERSATION	DOCUMENTATION FORM	_
Conversation Pertains to:	□ Copy? □	
■ WELL STATE 21-19 (32-16D)	□ OTHER	
Section 32 Township 21S Range 19E API Number 43-019-31399		
Topic of Conversation: AS OF THIS DATE, DIRECTION Date of Phone Call: 4/14/2004 Time: _8		_
DOGM Employee (name): CAROL DANIELS Spoke with:	☐ Initiated Call? 🗵	•••••
Name: LYNN FAUST Of (company/organization): SOLARIS EXPLORATION CORP	☐ Initiated Call? ☐ Phone: (281) 931-8933	

Highlights of Conversation:

LEFT VOICE MAIL MESSAGE FOR LYNN FAUST REQUESTING THE DIRECTIONAL SURVEY TO BE SENT IN.

NOTICE

Utah Oil and Gas Conservation General Rule R649-3-21 states that,

- A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.
- ➤ Within 30 days after the completion or plugging of a well, the following shall be filed:
 - Form 8, Well Completion or Recompletion Report and Log
 - · A copy of electric and radioactivity logs, if run
 - · A copy of drillstem test reports,
 - A copy of formation water analyses, porosity, permeability or fluid saturation determinations
 - · A copy of core analyses, and lithologic logs or sample descriptions if compiled
 - A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

Failure to submit reports in a timely manner will result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

As of the mailing of this notice, the division ha	es not received the requir	ad ren	orts for
As of the maining of this holice, the division ha	is not received the require	ou icp	010 101
Operator: SOLARIS EXPLORATION CORP	Today's D	ate: _	04/19/2004
Well:	API Number:	Dri	lling Commenced:
STATE 21-19 (32-16D) T21S R19E SEC 32	4301931399		

To avoid compliance action, required reports should be mailed within 7 business days to:

Utah Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

P.O. Box 145801

Salt Lake City, Utah 84114-5801

If you have questions or concerns regarding this matter, please call (801) 538-5284.

c: **Well File** Compliance File



Directional LLC 259 South Center 34, 836 #305 Cusper, Wyoming #2601 Ph. 307-237-3130 Fx. 307-237-3126

S

Silde Data Sheet

					973			···							
	Con	npany:	Solar	is Explo	ration						Date	: 15	-Sep	thru	17-Sep
	Well	Name:	State	21-19#	32-160			_			Bit to Survey	;	45	Ft.	
	Co.	Rep. :	BIII B	ruckner			ــــــــــــــــــــــــــــــــــــــ				Page:		1	of	1
														_	
BHA	Strevy Depth	Incl.	Azimuti Degree	4	Days To	Feet	Drill	1	Drilli Hrs.	WOB 1000#	PU.SO A ROT WY	Planp	Flow Rate	Pressure OFF/ON	
1	518	4.4	106	500	563	54	R	60	1.75	10	35/35/35	140	380	600/700	Comments
1				583	570	. 7	0	260mt	0.25	15	35/35/35	140	380	600/700	
1	579	4.5	103.9	570	654	54	R	60	1.50	10	35/35/35	140	380	600/700	
. 1				624	686	12	0	255mt	0.26	18	35/35/35	140	380	600/700	1
1	642	4.6	110.4	636	667	61	R	60	1.25	15	38/38/38	140	380	600/700	
- 1	~~~			587	700	16	0	335mt	0.50	18	38/38/38	140	380	650/750	
1	705	4.7	102.3	703	750	47	R	60	1.00	15	38/38/38	140	380	650/750	
1	768	10	00.0	750	7000	18	0	340mt	-	18	38/38/38	140	380	650/750	
7	700	4,8	92.3	788	813	47	R	60	1.00	12	38/38/38	140	380	650/750	9-16
1	830	5	86.6	813	826	15	10	320mt		20	40/40/40	140	380	650/760	
1	630	-	00.0	828 875	876	47	R	60	1.00	12	40/40/40	140	360	650/750	
1	889	4.8	77.6	891	891 984	16	10	315mtt		15	40/40/40	140	380	650/750	ļ <u>.</u>
1			71.0	984	950	43	R	60	1.25	12	40/40/40	140	380	650/750	
1	952	4.7	73.3	950	997	16	0	305mtf		15	40/40/40	140	380	650/750	
1		-3.7	73.3	997	1013	16	R	60 300mtf	1.50	15	40/40/40	140	380	850/750	
1	1015	4.8	70.1	1013	1606	47	R	60	0,25 1,50	15	40/40/40	140	380	650/750	
1				1060	1070	16	6	315	0.50	15 15	40/40/40	140	380	050/750	
1	1078	4.9	69.8	1076	1128	47	R	60	1.25	15	40/40/40	140	380	650/750	
1				1123	1140	17	0	290	0.50	16	40/40/40 40/40/40	140	380	650/750	
1	1138	4.9	68	1140	1183	43	·R	60	1.50	15	40/40/40	140	380 380	650/750	
1				1183	1203	20	0	330	0.25	15	40/40/40	140	380	850/750 850/750	
1	1198	8.5	49,2	1203	1243	40	R	60	1.00	15	40/40/40	140	380	650/750	
1	_			1243	1300	17	0	275	0.75	15	40/40/40	140	380	650/750	
1	1261	7.3	44.4	1260	13(30	48	R	60	1.50	15	52/44/48	140	380	650/750	
1				1306	1322	16	0	135L	0.50	12	52/44/48	140	380	700/875	
1	1325	6.4	48.4	1322	1370	48	R	60	1.25	15	52/44/48	140	380	700/875	
				1370	1388	16	0	110Lgt	0.50	20	52/44/48	140	380	700/875	
4	1388	6.2	49.2	1385	1433	48	R	60	1.25	15	52/44/48	140	380	700/876	
1				1433	1461	18	0	110Lgt	0.75	20	52/44/48	140	380	700/875	
1	1451	5.6	51.8	1461	1400	45	R	60	1.50	15	52/44/48	140	380	700/875	
-1-1				1496	1510	20	0	105Lgt	0.75	15	52/44/48	140	380	700/900	
1 1	1514	5.0	51.5	1516	1559	43	R	60	1.25	15	52/44/48	140	380	700/900	
Midfine	Data				200	لسنا					52/44/48	140	380	700/900	
	, para 1g Data			ootage-	253	: 1. -	Hra=	7		F#Hr=	36.1428571				
	onal LL			cotage=	797			22.3		FVHr=_	35.8202247				}
w ocu	VINE! LL	.c ure	Clona	зир.:			Marc	nwick	/ Corr	ea					ł
				<u> </u>	- 1										

RECEIVED

APR 2 6 2004



Directional LLC 259 South Center St. 200 #205 Casper, Wyaming 3 2004 Ph. 307-237-3130 Fx. 307-237-3135

Slide Data Sheet

Company: Solaris Exploration Date: 17-Sep thru 17-Sep

Well Name: State 21-19 # 32-190 Bit to Survey: 45 Ft.

Co. Rep. : Bill Bruckner Page: 2 of 2

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1576 1637	5.7	49	1559 1584	15			O/R	RPM	Hrs.	MOB	PU,SO A ROT WT	Pump SPM	Flow	Preseure OFF/ON	Comment
1 1 1	1837		49		100		25	0	105Lgt	1.00	20	52/44/48	140	380	700/900	
1 1		5.9			162		37	R	60	1.75	15	52/44/48	140	380	700/900	
1		5.9		1621	164		25	0	105Lgt	0.75	20	52/44/48	140	380	700/900	
1	1700		45.1	1646	tes		36	R	60	1.50	15	52/44/48	140	380	700/900	
	1700			1682	1700		25	0	100Lgt.	0.75	25	52/44/48	140	380	700/900	
1 1				1707	174	•	28	R	80		15	58/54/56	140	380	700/900	
														-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1					11 (14)											
1																
1						6										
1				4 1	وأني											
1					(4)		,									
1					7,00											
1					74											
1					120											· · · · · · · · · · · · · · · · · · ·
1]				\cdot								
1																
					4					Ť			t			
					de l			. 1								
						\mathbf{I}										
L													- 1			
					100											
					(1) X (1)									-		
					1									-		
		.]				1		\dashv			+					
					3.34 P				-	_						
					V/1.3	1		_								
	1					†			-+	+						
					3/4	T				-+						···
• •]						Ť		-		\dashv	+		- 			
		1			1.0	1							-+	 +		
						+	- +	-+	-	\dashv				\dashv		
						1	-						∤-			· · · · · · · · ·
lding	Data		Fa	otage	75	-		tre=	2.5		Ft/Hr=	30			L	
otatin	g Data:			otage-	444			irse :				34.1538462				

RECEIVED

APR 2 6 2004



Directional LLC 259 South Center St. Ste #305 Casper, Wyoming #2601 Ph. 307-237-3130 Fx. 307-237-3136

BHA Data Sheet

Job# Customer: Well: Well Loc.: County/St.: Rig: DD: DD:	2003-11 Solaris Exp State 21-19			BHA #: Date in:				8 3/4	Motor #	2010
Well: Well Loc.: County/St.: Rig: DD:	State 21-19			Onto Jos	0.47					
Well Loc.: County/9t.: Rig : DD:		# 32-160		J VAUE IN:	9-17		Data Cu	6	Motor OD:	6 3/4
County/9t.: Rig : DD:	1)	Depth in:	1959	t	>-p4,64		Tat.Fige.:	
Rig : DD:				Slide Hrs.:			Slide P		Silde ROP:	
DD:				Rot.Hrs.:			Rot		Rot.ROP:	
	Excell # 14			Orlg Hrs.:		8	ide lec		Avg.ROP:	
DD:	Bill Marchw	ick		Circ.Hrs.:			ot MO	G S	Steering%:	
				Tot D&C Hrs:		0.00	Avg To		Rotate %:	
MWD:	Affreado Co	orrea		R/8 Config.:	9/10-4st		we look		GPM:	
MWD:				ABH Set:	1.5**		Inct.		SPP On:	
Mud Type:		Mud PV:	1	Mud YP:			Incl.Or			
Mud Wr.:		Chloride:	 	BHT F			imuth in		SPP Off:	N.
Mud Vis.:	†	Sand %:	 	Solid %:					Delta P:	
	-	1-40	<u> </u>	30% A.		72101	nuts Out	25 Z1.6	Avg.DLS:	
Item	Description	Lyanda	1 000							
700171	occuption	Vendor	SM	FN	Stab. OD	OD	10	Connection	Length	Cum. Longth
1 24	EHP 51 X	D	143740	Jets						
110R	LIF STA	Reed	J43712	3 x 15	Wiel Serie	8 3/4		4.5 Reg Pin	1.00	1.00
2	id Motor	Hunting	2004		Kick Pad		l	4.5 Reg Box		
	iu motor	Perform	2010	1.66	6 15/18	6 3/4		4.5 XH Box	26.47	27.4
3 UB	WO.	Black					1	#.5 XH Pin		
3 08	mu	Max .	N/A			6 1/2	3 1/4	5.5 IF Box	2.87	30.34
4 70	•• •• •• •	Black					1	4.5 IF Pin		
- 41100	ol Carrier	Max	650-052			6 1/2		4.5 XH Box	30.13	60.47
٠. اــ	4 4444 6	Black	1					4.5 XH PIn		1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
5 SIN	ort NMDC	Max .	106			6 3/8	3 1/4	4.5 XH Box	6.74	67,21
		,						4.5 XH Pin		
6 14	x 6"DC	Rig					2 3/4	4.5 XH Box	426.13	493.34
1					ľ	1 34	100			
								1	1	
							7.7			TAA
								X		
1										
1					T					
				l						
ł										
									1	
1	1	7			7		3.44	1 × 1 × 1 × 1		100
		1				1		Marsa little Marsa little	1	
	_						1	Total BHA	Length =	493.34
HA Weigl		Vt in Air =		Nt in Mud =	15254		1			
ia Expecto	d Behavior	Build & Co	ontroi Angle	& Azmith Wi			18			
			-		<u>:</u>	9				
					7					
IA Actual B	Schavior							OMAR STORES		
			 				•	X		7.35
			· · · · · · · · · · · · · · · · · · ·					Marie Marie Carlos		- N.
mment	/ Reason fo	r Trin I			- P	ECF	VE			
	ure? Y or N	, IIIP					· V (
Grade			·	ng/Gege/Other/		سيمد	2004		4.	

DIV. OF UIL, GAS & MINING

September 20, 2003

7:49 am

PathTracker 4.0
Survey Calculation Program
Directional LLC

Page 1 of 1

Customer: WellName:

Solaris Exploration State 21-19 # 32-16D

Location:

Grand County/ Utah

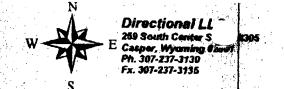
Vertical Section Calculated on: 31.8300 Survey Calculation Method: Minimum Curvature FileName: C:\PATHTRKR\SOL0311A SR3

# .	Depth Inc Feet Degrees		Azimuth Degrees	TVD Feet	North Feet	East Feet	Section Feet	Dogleg /100f		TmRate /100f	
34	2255.00	9.80	31.10	2244.47	99.88	150 66	164.31	0.83	0.82	-0.82	
35	2317.00	10.90	31.20	2305.47	109.41	156.42	75.45	1.77	1.77	0.16	
36	2381.00	11.30	30.20	2368.27	120.00	162.71	87.77	0.69	0.63	-1. 56	
37	2445.00	11.30	27.60	2431.03	130.98	168.77	200.29	0.80	0.00	-4 .06	
38	2507.00	11.60	23.90	2491.79	142.06	174 11	212.52	1.28	0.48	-5.97	
39	2570.00	12.00	23.70	2553.46	153.85	179.31	225.28	0.64	0.63	-0.32	
40	2632.00	12.50	25.40	2614.05	165.81	184.78	238.33	0.99	0.81	2.74	
41	2695.00	12.00	24.90	2675 62	177.91	190.46	251.60	0.81	-0.79	-0.79	
42	2757.00	11.60	21.20	2736.31	189:57	195.43	264.13	1.38	-0.65	-5.97	
43	2819.00	11.60	18.90	2797.04	201.28	199.70	278.33	0.75	0.00	-3.71	

Closure is 283.5365 Feet on an azimuth of 44.7740

RECEIVED APR 2 6 2004

DIV. OF OIL, GAS & MINING



Silde Data Sheet

W	S E		269 South Center S Casper, Wyaming Court Ph. 307-237-3130 Fx. 307-237-3135				305	•						Silde	Data She	et
												<u> </u>				
	Well Name:		Solaris Exploration State 21-19 # 32-180						_			Date:	45		thru	21-5
									-			Bit to Survey:			_Ft.	
			Bill Bruckner						-			Page:			of	
						1									-	
BHA	Surevy	inci.	Azimuth	Depth		T		Dritt	Tool Face or							T
	Depth	Digree	Degree	From	D-4		Foot	O/R	RPM	Driff Hrs.	WOB 1000#	PU,SO & ROT W7	SPM .	Flow Rate	Pressure OFF/ON	Com
2	3193	12	26.7	3176	323		82	R	60	2.50	20	88/68/80	140	370	800/1000	
2	3250	12.5	27.8	3238 3301	330 320	_	63	R	130Lgt	3.50 0.25	20 35	88/68/80	140	370	800/1000	<u> </u>
2				3308	392		13	0	130Lgt	0.50	35	88/68/60	140 140	370 370	800/1000	9-21
2	3319	12.5	26.1	3321	ass		43	R	60	4.75	20	88/68/80	140	370	800/1000	-21
2	3362	12.7	25.8	3364	342	-	63	R	60	5.50	25	88/88/80	140	370	800/1000	
2	3445			3427	343		3	0	135L	0.50	30	88/68/80	140	370	800/1000	<u> </u>
2	3506			3430 3490	3494 355		60	R	60	3.25 3.75	30	68/68/80	140	370	800/1000	ļ
2				3551	358	_	32	R	60	2.00	30	88/58/80 86/68/80	140	370 370	800/1000	
2													.,,,,	3.0	000,1000	┢──
2																
2			——-{		3	Н			 			 				
2 2	<u></u>					Н			\vdash							
2					7 3 3 3 2 3 3	H		<u> </u>				 		·		
						H										<u> </u>
					13.3	\Box										
		-				Ц										
	i					H				<u></u>						
			-	<u> </u>		Н										
				100		H						†				
						П										
						П										
						Ц										
-+		-+				H			-							
		\longrightarrow				Н					 ,	·				
					24	H										
						\coprod										
+					3	μ.										
مدناعالا	Data	<u> </u>		ootage	23	1			1 25	1	<u></u>		1	1		
	ig Data			corede.	384	۲		nrae . Wree	1.25 25.3		Ft/Hr=	18.4 15.2079208				
directi	onal Li	_C Dire	ctional	Sup.:		۲			hwick	/ Con		10.201 3200				
					1. 1.	4.										
					7,57										<u> </u>	
					4											

RECEIVED APR 2 6 2004

DIV OF OIL, GAS & MINING

September 21, 2003 5:31 am

PathTracker 4.0 Survey Calculation Program **Directional LLC**

Page 1 of 1

Customer: WellName:

Solaris Exploration State 21-19 # 32-16D

Location:

Grand County/ Utah

Vertical Section Calculated on: 31.8300 Survey Calculation Method: Minimum Cirvature FileName: C:\PATHTRKR\SOL0311A \$R3

a i de			and the second of	(1) (c)						
# 1 	Depth Feet [Inc Degrees	Azimuth Degrees	TVD Feet	North Feet	East Feet	Section Feet	Dogleg I	3ldRate 1 /100f	TmRate /100f
41	2757.00	11.60	21.20	2736.46	187.06	191.81	260.09	1.38	-0.65	-5.97
42	2819.00	11.60	18.90	2797.20	198.77	196.08	272.29	0.75	0.00	-3.71
43	2881.00	11.50	23.20	2857 94	210.35	200.53	284.48	1.40	-0.16	6.94
44	2943.00	11.70	25.30	2918.67	221.72	205.65	296.84	0.75	0.32	3.39
45	3006.00	12.00	25.60	2980.33	233.40	211.21	309.69	0.49	0.48	0.48
46	3069.00	11.70	25.40	3041.99	245.07	216.78	322.55	0.48	-0.48	-0.32
47	3131.00	12.00	25.40	3102.67	256.57	222.25	335.20	0.48	0.48	0.00
48	3193.00	12.00	26.70	316 3.31	268.15	227.91	348.03	0.44	0.00	2.10
49	3258.00	12.50	27.60	3224.88	280.05	234.01	361.35	0.85	0.79	1.43
50	3319.00	12.50	26.10	3286.39	292.21	240.17	374.93	0.52	0.00	-2.38

Closure is 378.2424 Feet on an azimuth of 39.4163

RECEIVED APR 2 6 2004

DIV. OF OIL, GAS & MINING

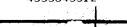


Directional LLC
259 South Center St. Sig. (30)
Casper, Wyoming 82(6)
Ph. 307-237-3130
Fx. 307-237-3136

Slide Data Sheet

	Con	pany:	Solaris	Explor	ation						Date:	18-	Sep	thru	20-Sep
	Well	Name:	State 2	1-19#;	2-160			-		1	Bit to Survey:	4	5	Ft.	
	Co.	Rep. :	Bill Br	ıckner				•			Page:		3	of	3
EHA #	Surevy Depth	incl. Degree	Azimuth Degree	Dapth From	0-up0	Fact	DYSH OVR	Tool Pace or RPM	Dylli HV9.	WOB 1000#	PU,80 & ROT WT	Pump SPM	Flow Rate	Pressure OFF/ON	Correments
2	1946	6.2	23	1959	1901	32	R	60	0.75	15	58/54/56	140	370	800/1000	
2		ļ		1991	2001	10	0	HS	0.75	18	58/54/58	140	370	800/1000	
2	2009	7	28.3	2001	2654	53	R	60	1.50	15	58/54/56	140	370	800/1000	
2				2054	2084	10	0	15Lgt	0.25	25	58/54/56	140	370	800/1000	
2	2070	. 8	30.9	2084	2111	51	R	60	1.75	15	62/56/60	140	370	800/1000	
2	2131	8.9	32.3	2115 2126	2178	10 51	O R	45Lgt 60	0.26	25 15	62/56/60	140	370 370	800/1000	———
2	2131	0.5	32.3	2176	216	15	0	60Lgt	1.25 0.25	35	62/56/60	140	370	800/1000	
2	2194	9.3	31.6	2191	2280	48	R	60	1,75	15	62/56/60	140	370	800/1000	
2			-	2239	2256	18	0	75Lgt	0.25	35	62/56/60	140	370	800/1000	
2	2255	9.8	31.1	2255	2300	45	R	60	1.50	15	62/56/60	140	370	800/1000	
2	_			2300	232	20	0	10Lgt	0.25	30	66/60/64	140	370	800/1000	
2	2317	10.9	31.2	2320	236	A2	∃R	60	1.60	15	66/60/64	140	370	800/1000	
2				2362	238	20	0	90Lgt	0.25	30	66/60/64	140	370	800/1000	
2	2381	11.3	30.2	2382	242	44	R	60	2.00	25	66/60/64	140	370	800/1000	
2				2428	244	20	0	95Lgt	0.50	15	66/60/64	140	370	800/1000	
2	2445	11.3	27.6	2446	2400	44	R	60	1,75	15	66/60/64	140	370	800/100D	
2				2490	251	20	0	90Lgt	0.50	30	66/60/64	140	370	800/1000	
2	2507	11.6	23.9	2510	255	42	R	60	2.75	15	66/60/64	140	370	800/1000	
2				2562	260	52	R	60	3.50	15	70/64/68	140	370	800/1000	
. 2	2570	12	23.7	2804	261	11	R	60	1.25	15	70/64/68	140	370	800/1000	9-19
2	2632	12.5	25.4	2615	207	62	R	60	3.25	15	70/64/68	140	970	800/1000	
2	OROE	40	24.0	2677	2007	20	0	130Lgt	0.50	30	70/64/68	140	370	800/1000	_
2	2695	12	24.9	2097 2740	2740	43 20	R	60 130Lgt	1.50 0.50	15 30	70/84/68 70/64/68	140	370 370	800/1000	9-20
2	2757	11.6	21.2	2760	2808	42	R	60 60	1.25	15	74/86/70	140	370	800/1000	- 20
2	2819	11.6	18.9	2802	200	62	R	60	2.25	15	74/66/70	140	370	800/1000	
2				2864	2870	6	0	90Rgtf	0.50	25	74/86/70	140	370	800/1000	
2	2881	11.5	23.2	2870	2023	58	R	60	2.26	20	74/66/70	140	370	800/1000	
2	2943	11.7	25.3	2926	3020	94	R	60	4.75	20 :	74/66/70	140	370	800/1000	
. 2				3020	3023	В	0	100L	0,50	26	74/88/70	140	370	800/1000	
2	3006	12	26.6	3028	3062	54	R	60	2.00	20	74/66/70	140	370	800/1000	
2	3069	11.7	25 4	3082	3148	62	R	60	2.00	20	74/66/70	140	370	800/1000	
2	3131	12	25.4	3144	3170	32	R	60	1.00	20	74/86/70	140	370	800/1000	
	g Data			Footage	195	-		5.25		FVHr-					
	ing Dat			Footage	1022	-		41.5		Ft/H/=	24.626506				
Direct	tional L	LC Dir	ectiona	Sup.:	- 1		Mar	chwic	k / Con	108	· · · · · · · · · · · · · · · · · · ·				

RECEIVED APR 2 6 2004



Directional LLC 259 South Center St. Ste #305 E Casper, Wyoming 82801 Ph. 307-237-3130 Fx. 307-237-3135

Survey Calculation Sheet

Company Solaris Exploration

Well State 21-19 # 32-16D

Field

Rig Excell # 14

Dir. LLC Rep. Marchwick / Correa

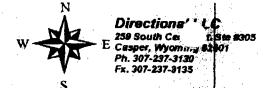
Mag. Decl. 11.20 Target TVD 4886

Target Az. 31,83

Tgt. Coor. 1

No.	1 41= -	A CONTRACT	TAIC T		11 74 T	-W 1		1100		- Br -		A	D 111
Date	No.	DEPTH	INC.	AZW	C.L.	T.V.D.	V.S.	N/S	EW	DLŞ	₿/D,	R/L	BHA
Tie - in													1
	1	135	2.0	100		134.97	0.64	0.65 S	2.26 E	1.48	1.48	78.52	1
-	2	250	2.5		D 115	249.88	1.87	1.89 8	6.60 E	0.43	0.43		1
	3	345	3.0	106		344.77	3.12	3.15 S	10.99 E	0.53	0.53		1
	4	463	3.0		118	462.61	4,80	4.85 3	16.92 E				1
A	5	518	4.4	106		517.50	5.77	5.83 S	20.33 E	2.55	2.55		1
	6	579	4.5	103		578.31	7.15	7.05 S	24.91 E	0.31	0.16	-3.44	1
	7	642	4.6	119.		841.11	8.41	8.52 S	29,67 E	0.83	0.16	10.32	1
	8	706	4.7	107		703.91	9.77	9.96 S	34.56 E	1.05	0,16	-12.86	1
16-Sep	9	768	4.8	17		766.69	11.93	10.61 S	39,72 E	1.32	0.16	-15.87	1
	10	830	5.0	86		828.47	14.81	10.51 S	45.00 E	0.98	0.32	-10.81	_1_
	11	889	4.8	77.		887.25	18.95	9.78 S	49.98 E	1.22	-0.34	-13.73	1_
	12	952	4.7	73.		950.03	21.83	8.46 S	55.02 E	0.57	-0.16	-6.67	1
<u>,</u>	13	1015	4.B	70.		1012.82	25.83	6.83 S	59.97 E	0.45	0.16	-5.08	1
	14	1078	4.9	69.		1075.59	30.02	5.00 S	64.98 E	0.16	0.16	-0.48	1
71	15	1138	4.9	50.	60	1135.37	34.11	3.15 S	69.76 E	0.26		-3.00	1
	16	1198	6.5	40.	2 60	1195.08	39.42	0.03 N	74.71 E	4.06	2.67	~31.33	1
	17	1261	7.3	44	63	1257.62	46.73	5.22 N	80.21 E	1.56	1.27	-7.62	1
X.	18	1325	6.4	44.	64	1321.17	54.15	10.58 N	85.63 E	1.45	-1.41	2.13	1
	19	1388	6.2	49.	83	1383.79	60.80	15.22 N	90.75 E	0.58	-0.32	4.44	1
44 5	20	1451	5.6	81,	63	1446.45	66.93	19.35 N	95.74 E	1.04	-0.95	4.13	1
17-Sep	21	1514	5.9	51.	63	1509.14	72.87	23.27 N	100.69 E	0.48	0.48	-0.48	1
44. 44.	22	1576	5.7	40.	62	1570.82	78.81	27.27 N	105.51 E	0.52	-0.32	-4.03	1
	23	1637	5.9	45.	61	1631.51	84.76	31.47 N	110.02 E	0.72	0.33	-6.39	1
(3)	24	1700	5.9	27.	63	1694.17	91.13	36.33 N	114.28 E	1.26	I	-12.22	1
Ş.	25	1761	8.2	24.	81	1754.83	97.54	41.52 N	118.06 E	0.67	0.49	-4.26	1
	26	1822	6.2	22.	61	1815.48	104.08	47.27 N	121.20 E	2.17		-20.16	1
	27	1885	5.8	18.		1878.13	110.54	53.43 N	123.51 E	0.93	-0.63	-6.51	1
18-Sep	28	1946	6.2	23		1938.80	116.79	59.39 N	125.77 E	1.02	0.66	7.54	2
	29	2009	7.0	26.		2001.38	123.97	65.96 N	128.80 E	1.40	1.27	5.24	2
	30	2070	8.0	30		2061.86	131.92	72.94 N	132.63 E	1.91	1.64	7.54	2
Š.	31	2131	8.9	32		2122.20	140.88	80.57 N	137.33 E	1.51	1.48	2.30	2
	32	2194	9.3	37		2184.40	150.84	89.03 N	142.80 E	0.66	0.63	-1.11	2
	33	2255	9.8	31.	-	2244.56	160.96	97.67 N	147.86 E	0.83	0.82	-0.82	2
	34	2317	10.9	31	62	2305.55	172.10	107.20 N	153.62 E	1.77	1.77	0.16	2
	35	2381	11.3	30.	*****	2368.35	184.42	117.80 N	159.91 E	0.69	0.63	-1.56	2
7	36	2445	11.3	27	_	2431.11	196.94	128.77 N	165.97 E	0.80		-4.06	2
	37	2507	11.6	73.		2491.88		139.85 N	171.31 E	1.28	0.48	-5.97	2
19-Sep	38	2570	12.0	23.		2553.55	221.93	151.64 N	176.51 E	0.64	0.63	-0.32	2
Ž	39	2632	12.5	28.		2614.14		163.61 N	181.98 E	0.99	0.81	2.74	2
80-8ep	40	2695	12.0		63	2675.70		175.70 N	187.66 E	0.81	-0.79	-0.79	2
	41	2757	11.6		62	2736.39		187.36 N	192.63 E	1.38	-0.65	-5.97	2
	42	2819	11.6	103		2797.13		199.07 N	196,90 E	0.75	-:}	-3.71	2
¥	43	2881	11.5	23.		2857.87	285.17	210.65 N	201.36 F	1.40	-0.16	6.94	2
	44	4944	22.0			4945.01	اود دوس	444.84 11	€99.40 E	U.70	V.66	0.00	
								EIVED					
+ 2 Contract			- F		l' + .			v L D	!				

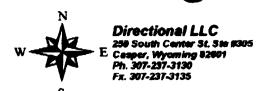
APR 2 6 2004



BHA Data Sheet

Job#	2003-11		14. n 144.	V.,	BHA #	3		tole Size	8 3/4	Motor # :	650-699
Custom			7.3		Date in:	9-22		Date Out		Motor OD:	
Weli:	State 21-1	9#32-16)		Dopth In:	3583	. 0	epth Out		Tot.Fige.;	
Well Lo					Slide.Hrs.:			Slide Ft.		Slide ROP:	<u> </u>
County/	81.: Grand Cou	inty/ Utah			Rot.Hrs.:			Rot.Ft.		Rot.ROP:	
Rig :	Excell # 14		3		Drig Hre.:		5	ide WOB		Avg.ROP:	
DO:	Bill Merchy	vick			Circ.Hrs.:		R	ot. WOB		Stearing%:	
DD:					Tot D&C Hrs:			Avg. Tq.:		Rotate %:	
MWD.	Alfreado C	олеа			R/S Config.:			vg RPM		GPM:	
MWD:					ABH Set:	1.5*		incl. in:		SPP On:	
Mud Ty	pe: KCL	Mud PV:			Mud YP:			incl.Out:		SPP Off:	
Mud Wt.		Chloride;	Argan San		BHT F		Az	lmuth in :		Deita P:	
Mud Vis).;	8and % :			Solid %:		Azin	ruth Out :		Avg.DLS:	
						,					
Item	Description	Vendor	501		F/N	Stab. OD	OD	ID.	Connection	Length	Cum. Lengti
		7.			Jets						
1	BIT F 15 HDP	Smith	LK8419		15-15-14	<u> </u>	8 3/4	1	4.5 Reg Pin	1.00	1.0
		Black.	100			Kick Pad			4.5 Reg Box		
2	Mud Motor	Max	860-899			6 3/4	5 3/4	ł	4.5 XH Box	27.76	28.7
		Black					<u> </u>		4.5 XH Pin		
3	UBHO	Mex	N/A				6 1/2	3 1/4	5.5 IF Box	2.87	31.6
		Black		П					4.5 IF Pin		
4	Tool Carrier	Max	650-052	2			6 1/2	3 1/4	4.5 XH Box	30.13	61.7
		Black							4.5 XH Pin		
5	Short NMDC	Max		06			6 3/8	3 1/4	4.5 XH Box	6.74	68.5
									4.5 XH Pin		
- 6	14 x 6"DC	Rig						2 3/4	4.5 XH Box	426.13	494.6
1		1									
				_							
1		1									
		ļ		\perp							
	*		1			i					
				4							
	•					1					
				4							
- 1						Į.					
				4							
		ļ				1					
		<u> </u>									
HLAR SA	-1-1-1 · ·		- 1						Total BHA	Length =	494.63
		Wt in Air			Nt in Mud =	15412					
HA Exp	ected Behavior	Control A	ngie And	AZ	mith With M	inium Dog	Legs				
	<u> </u>			<u> </u>							
		The second							-		
HA Acti	ual Behavlor	L									
<u> </u>											
		1. 1.									
	ents / Reason f					_					
	ailure? Y or N						· ·				
it Grade	Inner/Ou	ter/Dull Cha			ng/Gage/Other	Person Pul	-				

RECEIVED APR 2 6 2004



BHA Deta Sheet

					·	_				,	
Job#		2003-11			BHA#:			lole Size :	8 3/4	Motor # :	650-699
Custon	er:	Solaris Expl			Date in:	9-22		Date Out:	9/23/2003	Motor OD:	8 3/4
Well:		State 21-19	# 32-16D		Depth in:		0	epth Out:	3938	Tot.Ftge.:	355
Well Lo	C.:				Slide.Hrs.;	6.5		Slide Ft.:	86	Silde.ROP:	13.23
County	/\$t.:	Grand Cour	nty/ Utah		Rot.Hrs.:	18.5		Rot.Ft.:	269	Rot.ROP:	14.54
Rig :		Excell # 14			Drig Hre	25	SI	ide WOB:	40	Avg.ROP:	14.20
OO:		Bill Marchwi	ck		Circ.Hrs.:	11	R	ot. WOB:	40	Steering%:	24.23%
DD:					Tot D&C Hrs:	36		Avg. Tq.:	135	Rotate %:	75.77%
MWD:		Alfreado Co	rrea		R/8 Config.:	5/6-6.5st		vg RPM :	60	GPM:	370
MWD:			•		ABH Set:	1.5°		Incl. In:	13.7	SPP On:	1150
Mud Ty	po:	KÇL	Mud PV:	10	Mud YP:	12		Incl.Out:	12.4	SPP Off:	1050
Mud W	l.:	8.9	Chloride:	13500	BHT F		Az	imuth In :	30.9	Delta P:	100
Mud Vi	9.:	39	Sand % :	0.50%	Solid %:	7.00%	Azin	uth Out :	21.8	Avg.DL8:	0.98
Hem		Description	Vendor	8/N	F/N	Stab. OD	OD	ID	Connection	Length	Cum. Length
					Jets						
1	Bit	F 15 HDP	Smith	LK9419	15-15-14		8 3/4	L	4.5 Reg Pin	1.00	1.00
	1		Black			Kick Pad			4.5 Reg Box		
2	Mu	d Mater	Max	650-699		6 3/4	6 3/4		4.5 XH Box	27,76	28.76
			Black						4.5 XH Pin		
3	UB	НО	Max	N/A			6 1/2	3 1/4	5.5 IF Box	2.87	31.63
			Black						4.5 IF Pin		
4	Too	d Carrier	Max	650-052			6 1/2	3 1/4	4.5 XH Box	30.13	61.76
	T		Black						4.5 XH Pin		
5	Sho	ort NMDC	Max	108			6 3/8	3 1/4	4.5 XH Box	6.74	68,50
									4.5 XH Pin		
6	14 1	c 6"DC	Rig					2 3/4	4.5 XH Box	426.13	494.63
	ł										
			1								
	l										
-											
	1										
			Ī								
	1										
	1]			
	1		1								
			<u> </u>						Total BHA	Length -	494.63
BHA Y	Nela	hts:	Wt in Air =		Wt in Mud =	1331	7 lb			-	
	-	d Behavior	Control A	ingle And A	zmith With M						
						· · · · · · · · · ·				·····	
RHA A	الحييا	Behavior	BHA Pre	formed As I	Expected						
			 								· · · · · ·
Č	-	s / Reason f	or Trin	Pressure la	ocrease			•			
		ure? Y or N		L LOSOUIG II	M 6696	Mud Moto	Y				
	_			<u> </u>				C IS CALLED	E/ 4/4 .DT / Dar	wee learness	
Bit Gre	de j	Inner/O	mer/Dull Ch	ar./Location/E	Img/Gege/Othe	mkesson Pi	Alied	Aumero	E/ 1/4 -BT / Prese	HIE MICHOSOC	

RECEIVED APR 2 6 2004



Slide Data Sheet

•	Соп	ipany:	Solaris	Explor	ation			-			Date:	<u>22-</u>	Sep	thru	23-Sep
	Well 1	Name:	State 2	1-19#3	2-16D			-		i	Bit to Survey:	4	15	Ft.	
	Co.	Rep. :	Bill Bri	uckner							Page:	:	5	of	5
		·						•			_			-	
<u> </u>	Γ							Tool						1	
DHA #	Surevy Depth	Incl. Degree	Azimuth Degree	Depth From	Depth To	Feet	Drill O/R	Face or RPM	Cirili Hrs.	WOB 1000#	PU.SO & ROT WT	Pump SPM	Flow Rate	Pressure OFF/ON	Convents
3	Ī			3583	3604	21	0	135Lgt	2.50	35	94/85/80	140	370	1050/1150	
3	3571	13.6	32	3804	3616	12	Ŕ	60	0.76	30	94/65/80	140	370	1050/1150	
3				3616	3668	52	R	60	3,75	30	94/85/80	140	370	1050/1150	
3	3632	12.8	31,2	3668	3677	9	R	60	1.00	30	94/65/90	140	370	1050/1150	9-23
3				3677	3697	20	0	105Lgt	1.50	35	94/65/84	140	370	1050/1150	
3	3695	13	29.7	3697	3740	43	R	60	3.76	30	94/65/64	140	370	1050/1150	
3				3740	3760	20	0	130Lgt	0.75	40	94/65/84	140	370	1050/1150	1
3	3758	13	27	3760	3803	43	R	60	2.50	30	94/65/84	140	370	1050/1150	
3	l			3803	3828	25	0	120Lgt	1.75	35	94/65/84	140	370	1050/1150	<u> </u>
3	3820	12.4	23,4	3828	3865	37	R	60	2.75	30	94/85/84	140	370	1050/1150	<u> </u>
3				3865	3926	63	R	60	2.75	30	94/65/84	140	370	1050/1150	<u> </u>
3	3883	12.4	21.8	3928	3938	10	R	60	1.25	30	94/05/64	140	370	1050/1150	<u> </u>
3												L	<u> </u>		<u> </u>
3															<u> </u>
3														<u> </u>	
														<u> </u>	
													l	<u> </u>	1
	7					1					I				

Sliding Data: Rotating Data:

Footage= Footage-_ Directional LLC Directional Sup.:

86 269 Hre= 6.5 Hrs= 18.5

FVHr= 13.2307692 FVHr= 14.5405405

Marchwick / Correa

RECEIVED

APR 2 6 2004

PathTracker 4.0 Survey Calculation Program Directional LLC

Page 1 of 1

Customer:

Solaris Exploration WellName: State 21-19 # 32-16D

Location:

Grand County/ Utah

Vertical Section Calculated on: 31.8300

Survey Calculation Method: Minimum Curvature FileName: C:\PATHTRKR\SOL0311A.SR3

#	Depth Feet D	Inc Degrees		TVD Feet	North Feet	E as t Feet	Section Feet	Dogleg /100f	BldRate /100f	TmRate /100f
51	3382.00	12.70	25.80	3347.87	304.57	246.18	388.60	0.33	0.32	-0.48
52	3445.00	12.90	26,30	3409.30	317.11	252.31	402.49	0.36	0.32	0.79
53	3506.00	13.40	29.00	3468.70	329.40	258.75	416.33	1.30	0.82	4.43
54	3571.00	13.60	32.00	3531.91	342.46	266.45	431.49	1.12	0.31	4.62
55	3632.00	12.80	31.20	3591.30	354.33	273.75	445.42	1.35	-1.31	-1.31
56	3695.00	13.00	29.70	3652.71	366.45	280.88	459.48	0.62	0.32	-2.38
57	3758.00	13.00	27.00	3714.09	378.92	287.61	473.62	0.96	0.00	-4.29
58	3820.00	12.40	23.40	3774.58	391 24	293.42	487.16	1.60	-0.97	-5.81
59	3883.00	12.40	21.80	3836.11	403.73	298.62	500.51	0.55	0.00	-2.54
60	3947.00	12.40	21.80	3898.61	416.49	303.72	514.04	0.00	0.00	0.00

Closure is 515.4717 Feet on an azimuth of 36,1009

RECEIVED

APR 2 6 2004

DIV. OF OIL, GAS & MINING



BHA Data Sheet

			t								
Job #		2003-11			BHA #	5	,	iole Size :	8 3/4	Motor # :	6052
Custon	ner:	Solans Exp	loration		Date in:	9-24		Date Out:		Motor OD:	6 3/4
Well:		State 21-19	# 32-160)	Depth In:	3960	ε	epth Out:		Tot.Ftge.:	
Well Lo	IC.:				Silda.Hrs.:			Slide Ft.:		Side.ROP:	
County	/St.:	Grand Coul	nty/ Utah		Rot.Hrs.:			Not.Ft.:		Rot.ROP:	
Rig :		Excell # 14			Drig Hre.:		51	ide WOB:		Avg.ROP:	
DD:		Bill Marchwi	ick		Circ.Hrs.:			ot. WOB:		Steering%:	
DD:					Tot D&C Hrs:			Avg. Tq.;		Rotate %:	
MWD:		Alfreado Co	rrea		R/S Config.:	7/8-3stg		vg RPM :		GPM:	370
MWD;					ABH Set:	1.5°		Incl. in:	12.1	SPP On:	5/0
Mud Ty	De:	KCL	Mud PV;	T	Mud YP:			Incl.Out:	12.1	SPP Off:	
Mud W			Chloride:	<u> </u>	BHT F		A-	imuth in :	21.6	Delta P:	
Mud VI			Sand %:	 	Solid %:			outh Out :	27.0	Avg.DL8:	
			100110 10 1				74111	ioni oui .		AVD.DLO.	
Item		Description	Vendor	S/N	F/N	Ctat OC		,,,	04:	A 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.
	 	zestiption	, venoor	3/14	Jets	Stab. OD	OD	ID.	Connection	Longth	Cum. Length
•	le»	F3HG	Smith	KY5055	3 x 15		9 3/4		4 & Pos Die		1.00
	 Sn	1 3110	Hunting	IK1 3033	3 X 13	Kick Pad	8 3/4		4.5 Reg Pin	1.00	1.00
•	34	Motor	Perform	6052		6 3/4			4.5 Reg Box		20.00
	MU	MOCOT		0052		0 3/4	6 3/4		4.5 XH Box	29.05	30.05
	۱		Black						4.5 XH Pin		
3	UBI	10	Max	N/A			8 1/2		5.5 IF Box	2.87	32.92
			Black			1			4.5 IF Pin		
4	100	l Carrier	Max	650-052			8 1/2		4.5 XH Box	30.13	63.05
_	l		Black				,		4.5 XH Pin	i	
5	Sho	rt NMDC	Max	106			6 3/8		4.5 XH Box	6.74	69.79
			1						4.5 XH Pin		
6	14 x	6"DC	Rig					2 3/4	4.5 XH Box	426.13	495.92
			1								
-											·
			<u></u>								
	ŀ]	i l							
		- ····									
			}			· }					
									1	 	
			ŀ			1				ŀ	
			·						Total BHA	Length =	495.92
BHA V	Velai	hts: Y	Mt in Air =		Wt in Mud =	1556	9 lb		174110111		777,72
		d Behavior			zmith With M						
			J	Sire variety							i:
		· · · · · · · · · · · · · · · · · · ·		 							
PMA A-	trans P	ehavior	F								
ona ac	1881 ()	UNITED TO									
			4.								
COMM		/ Reason f									
	Fall	are? Y or N									
SIt Grad	le	inner/Ou	ter/Dull Ch	6\nodeso./\.ve	rng/Gaga/Othe	Meason Pu	Hed				

RECEIVED APR 2 6 2004

DIOCKITEINEINI



Slide Data Sheet

												-			
	Con	ipeny:	Solerie	Explor	ation			-			Date:	25-	Sep	thru	25-Sep
	Well	Name:	State 2	1-19#	32-16D			-		1	Bit to Survey:	4	5	Ft.	
	Co.	Rep. :	BIII Bn	uckner							Page:	•	7	of	7
l								•						-	
								Tool						<u> </u>	
BHA	Strevy Depth	incl. Degree	Azimuth Dograe	Depth From	Depth To	Foot	Drill O/R	Face or	Drill Hra.	10000	PU,90 4 ROT WT	Pump SPM	Flow Rate	Pressure OFP/ON	Comments
5	3947	12.4	21.8	3960	3992	32	R	60	1.50	30	94/76/86	140	370	1200/1300	9-25
5	4009			3992	4054	62	R	60	2.25	20	94/76/86	140	370	1200/1300	
5					<u> </u>	ļ	R	60		20	94/76/66	140	370	1200/1300	
5							-								
5					 	ļ	 	-							
5							\vdash								
5			·												
5															
5															
5		<u> </u>			ļ										
5															
5															
										-					
										-					-
										_					
\square															
							<u></u>								
							-								
															-
611-41-	- D-4-	Ļl					<u></u>			FAF :	400.000				
	g Data			Footage=	94		Hrs=	3.75		FUH	#D(V/0) 25.0666667				
	ing Det		i nationa	Footage-	34	1		3./5		PVHr=	25.000000/				

RECEIVED APR 2 6 2004

DIV. OF OIL, GAS & MINING



Slide Date Sheet

	Con	npany;	Solaria	Explo	ration			-			Date:	24	Sep	thru	24-Sep
	Well	Name:	State 2	21-19 # :	32-16D			-			Bit to Survey:		15	Ft.	
	Co.	Rep. :	BW Br	uckner				-			Page:		6	of	6
		·	***************************************												
RMA #	Surevy Dapith	inci. Degrae	Azimuth Degree	Dopus From	Depth To	Feat	Drift O/R	Tool Pacat or RPM	Dr#II Hrs.	W08	FU,SO & ROT WT	Pump SPM	Flow Rate	Pressure OFF/ON	Comments
4	3915	12.1	21.6	3938	3980	22	R	60	1.50	30	94/76/66	140	370		
1						-				-		-		<u> </u>	
4															
4		 -		<u> </u>											
4					<u> </u>	 	 	\vdash	_						
4															
4					ļ	ļ				ļ					
4	,						-								
4															
4					ļ										
4							H								
															
														-	
-															
	g Data		1	Footage-	22		Hre-	4 =	- <u></u> -	FVHr=	#DIV/0!				
riventi Direct	ng Dati ional Li	u: LC Din	; actiona	Factage- I Sup.:	22			1.5 hwick	/ Con	FYHr- rea	 				l
			_	- •							· · · · · · · · · · · · · · · · · · ·				ı

RECEIVED APR 2 6 2004

, Mur 03

008



Directional LLC 250 South Center St. Sto 8305 Casper, Wyuming 82601 Ph. 307-237-3130 Fx. 307-237-3136 T 213 R 19E 5-32 4:3-019-31399

Survey Calculation Sheet

Company Solaris Exploration

Well State 21-19 # 32-16D

Field

Rig Excell # 14

Dir. LLC Rep. Marchwick / Correa

Mag. Decl. 11,20
Target TVD 4886
Target Az. 31.83

	o i top.	THE VITTE	M . OOII	<u> </u>					igt. Coor.	1			
Date	No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	B/D.	R/L	BHA
Tie - in													1
••	45	3006	12.0	25,6	63	2980.26	310.38	233.70 N	212.04 E	0.49	0.48	0.48	2
	46	3049	11.7	25.4	63	8041.92	323.24	245,37 N	217.51 E	0.48	-0.48	-0.32	<u> </u>
	47	3131	12.0	26.A	52	3102.60	335,89	256,87 N	223.07 E	0.48	0.48	3,02	2
	48	3193	12.0	26.7	62	3163.24	348.71	268.45 N	228.73 E	0.44		2.10	
	40	3256	12.5	27.8	63	3224.81	362.04	280.35 N	234.83 E	0.86	0.79	1.43	
21-Зер	50	3319	12.5	26.1	63	3286.32	375.62	292.51 N	240.99 E	0.52		-2.38	
	51	3362	12,7	25.8	63	3347.80	389.29	304.87 N	247.00 E	0.33	0.32	-0.45	2
	52	2445	12.0	26.3	63	3409.23	403.18	317.41 N	253.13 E	0.36	0.32	0.79	3
	53	3506	13.4	29.0	81	3468.63	417.01	329.69 N	259.58 E	1.30	0.82	4.43	3
22- Sop	54	3871	13.6	32.0	66	3531.84	432.18	342.76 N	267.28 E	1.12	0.31	4.62	3
23-8ep	86	3632	12.8	31.2	61	3591.23	445,11	354.62 N	274.58 E	1.35	-1.31	-1.31	3
	54	3696	13.0	29.7	63	3052.64	460.17	366.75 N	281.70 E	0.62	0.32	-2.38	3
	67	3758	13.0	27.0	63	3714.02	474.31	379.22 N	288.43 E	0.90		-4.29	3
	58	3820	12.4	23.4	62	3774.51	487.84	391.54 N	294.24 E	1.60	-0.97	-5.81	3
	59	3883	12.4	21.8	63	3836.04	501.19	404.03 N	299,44 E	0.56		-2.54	3
25-8ep	60	3947	12.4	21.8	64	3098.54	514.73	416.79 N	304.54 E				8

RECEIVED APR 2 6 2004

DIV. OF OIL, GAS & MINING



Directional LLC 269 South Center St. Ste #306 Casper, Wyoming #2601 Ph. 307-237-3130 Fx. 307-237-3135

BHA Data Sheet

	<u> </u>										0000
lob#	200	3-11			BHA#:	6		ole Size :	8 3/4	Motor # :	6052
uetom	er: Sol	aris Expk	oration		Date in:	9-24		Date Out:	9/25/2003	Motor OD:	6 3/4
Vell:	Ste	te 21-19	# 32-16D		Depth In:	3960		pth Out:	4088	Tot.Ftga.:	128
Vell Loc					Silde.Hrs.:		1	Bilde Ft.:		Slide.ROP:	#DIV/0!
ounty/		and Coun	ty/ Utah		Rot.Hrs.:	6.75		Rot.Ft.:	128	Rot.ROP:	18.96
ilg :		cell # 14	·*·		Orig Hrs.:	6.75	86	de WOB:	0	Avg.ROP:	18.96
D:		Marchwid	ck		Circ.Hrs.:	11.25	Ro	L WOB:	20	Steering%:	
D:					Tot D&C Hre:	18		Avg. Tg.:	135	Rotate %:	100.00%
AWD:	Alfr	reado Co	mea		R/5 Config.:	7/8-3stg	A	vg RPM :	60	GPM:	370
AWD:	- ' ''''				ABH Set:	1.5°		inci. in:	12.1	SPP On:	1275
Aud Ty		KCL	Mud PV:	15	Mud YP:	3		Incl.Out:	12.4	SPP Off:	1175
Aud Wt		9	Chloride:	10500	BHT F		Azi	muth in :	21.6	Delta P:	100
Aud Vie		44	Sand %:	TR	Solid %:	7.00%		uth Out :	21.8	Avg.DL8:	0
ING AIR				• •••	-					<u> </u>	
		1.4	10-0-4-1	851	F/N	Stab. OD	OD	iD	Connection	Length	Cum. Length
Hem	Desc	ription	Vendor	S/N	Jets	SCHOT OF	00		00111100110011		
اء				WEGEE			8 3/4		4.5 Reg Pin	1.00	1.0
	BH F3	MG	Smith	KY5055	3 x 15	Kick Pad	0 3/4		4.5 Reg Box	1.30	
_			Hunting	2050		6 3/4	a 244		4.5 XH Box	29.05	30.0
2	Mud M	otor	Perform	6052		0 3/4	8 3/4	-	4.5 XH Pin	23.03	30.0
_			Black						5.5 IF Box	2.87	32.9
3	UBHO		Max	N/A			6 1/2	3 1/4	4.5 IF Pin	2.01	44.7
		_	Black					٠		30.13	63.0
4	Tool C	arrier	Max	650-052			6 1/2	3 1/4	4.5 XH Box	30.13	63.0
			Black					l	4.5 XH Pin		
5	Short (NMDC	Max	106			6 3/8	3 1/4	4.5 XH Box	6.74	69.7
								1	4.5 XH Pin		
6	14 x 6"	DC.	Rig					2 3/4	4.5 XH Box	426.13	495.9
										1	•
				<u> </u>							
					}				}	}	1
	ł			1							
								1		}	}
				i							<u> </u>
											\
	l		i	İ				L			
			1								,
	ŀ		ļ	l	l				L		
					1]
	ł		· ·	ł	1			L		1	<u> </u>
			<u> </u>		<u> </u>				Total BH	A Length =	495.92
BHA L	Neights	R :	Wt In Air =	1	Wt in Mud =	1342	29 lb				
	pected B				zmith With A						
une Ci			1-21.12011				_				
			IDLIA Des	formed As	Expected						
BHA A	tual Boh	EVIO	JOHN ME	NOTIFIED AS	Typeolea						
						····					
				17.0					· · · · · · · · · · · · · · · · · · ·		<u> </u>
Comr		Reseon		T.D.		}					
	Fallun	e? Y or N		1		<u></u>					
Bit Gra	de T	Inner/O	uter/Dull Cl	ner./Location/	Brng/Gage/Oth	er/Reason P	ulled	2/2////	VEVIV#		

RECEIVED APR 2 6 2004

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

25010114				
DESIGNA	TION C)F AGENT	ror o	PERATOR

	DESIGNATION OF AGENT ON OPERATOR
The undersigned is, or	record, the holder of oil and gas lease
LEASE NAME:	
LEASE NUMBER;	See attached
and hereby designates	
NAME:	MSC Exploration, E.P.
ADDRESS:	MSC Exploration, E.P. 16800 Emperior Valley Dr. 5to 380
	city Houston state TK zip 77060
regulations applicable securing compliance wo of the State of Utah wi (Describe acreage needed.)	to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as
	itate 21-19 # 32-16P
of the lease and the O State of Utah. It is also the lease.	is designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms if and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the understood that this designation of agent or operator does not constitute an assignment of any interest in
In case of default on the terms or orders of the	e part of the designated agent/operator, the lessee will make full and prompt compliance with all pules, lease Board of Oil, Gas and Mining of the State of Utah or its authorized representative.
The lessee agrees to	promptly notify the Division Director or Authorized Agent of any change in this designation UN 1 0 2004
Effective Date of Des	ignation: L-10-04 DIV. OF OIL, GAS & MINING
BY: (Name)	or: (company) Solaris ExploRation Corp
(Signature)	Land (Address) 16800 Imperial Valley Ste
(Title)	div Houston
(Phone) 2	81-931-8933 state LK zip 77060

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

AMENDED REPORT (highlight changes)

					·	• .
	APPLICATION FOR	R PERMIT T	O DRILL		5. MINERAL LEASE NO: ML-47441	6. SURFACE:
IA. TYPE OF WO	ORK: DRILL REENTER	DEEPEN			7. IF INDIAN, ALLOTTEE OR	TRIBE NAME:
B. TYPE OF W	VELL: OIL X GAS OTHER Di	rectional SI	NGLE ZONE MULTIPLE ZON	Œ	8. UNIT of CA AGREEMENT	KAME:
2. NAME OF OPE	PATOP:				9. WELL NAME and NUMBER	
	oploration, Inc.				State 21-19 #32-1	
3. ADDRESS OF			PHONE NUMBER:		10. FIELD AND POOL, OR W	
16800 Imper	iai Valley Dr., Ste 380 CITY Houston	STATE TX TIP	77060 281-931-8933		Undesignated	
	WELL (FOOTAGES)				11. QTR/QTR, SECTION, TO	MNSHIP, RANGE,
AT SURFACE:	122 FSL, 994 FEL,				MERIDIAN:	
AT PROPOSED	PRODUCING ZONE: BFIL 660	0 FSL, 660 FEI	L, C SE SE, Sec. 32, T21S-R	19E	SW SE SE, Sec. 32	. T21S-R19E
14. DISTANCE IN	MILES AND DIRECTION FROM NEAREST TOWN OR P	POST OFFICE:			12. COUNTY:	13, STATE:
Approxi	mately 2 Mile West of Crescent Jun	ction Litah			Grand	UTAH
15. DISTANCE TO	NEAREST PROPERTY OR LEASE LINE (FEET)		OF ACRES IN LEASE:	1 17. NL	JMBER OF ACRES ASSIGNED	TO THIS WELL:
6401				ł		
649'	D NEAREST WELL (DRILLING, COMPLETED, OR	19. PROPOSE	480 D DE PTH:	20 BC) ND DESCRIPTION:	
APPLIED FOR	ON THIS LEASE (FEET)					
	MIAM MARPHINA AD AD AD AD	4,9			nd Applied For.	
21. ELEVATIONS	(SHOW WHETHER OF, RY, GR, ETC.):	22, APPROXIB	ATE DATE WORK WILL SYART;	23. E8	TIMATED DURATION:	
4,818' G	R			3	30 days	
24.	PROPO	SED CASING A	ND CEMENTING PROGRAM			•
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUA	ANTITY,	YIELD, AND SLURRY WEIGHT	
12 1/4"	9 5/8" J-55 36#	400′	185 Sx Class "G", 1.18 CFS	15.2	P P G	
8 3/4"	7" J-55 23#	4,900'	Lead 125 Sx Blend, 3.82 CFS, 11.0	ppg, ?	ail 375 Sx 50/50poz 1.21	CFS, 14.4 ppg
		· .				
						-
		• • • • • • • • • • • • • • • • • • • •				

26.		ATTA	CHMENTS			
VERIFY THE FOLL	OWING ARE ATTACHED IN ACCORDANCE WITH THE	UTAH OIL AND GAS O	ONSERVATION GENERAL RULES;	***		
WELL PLA	T OR MAP PREPARED BY LICENSED SURVEYOR OR	ENGINEER	COMPLETE DRILLING PLAN			
- SADENCE	E OF DIVISION OF WATER RIGHTS APPROVAL FOR U	OE AE WATER	I <u> </u>			
CVIDENCE	CON DIVISION OF WATER RIGHTS APPROVAL FOR U	SE OF HEATER	FORM 5, IF OPERATOR IS PER	rbon of	R COMPANY OTHER THAN TH	e Lease Ow n er
	V 4. V .		<u> </u>			
NAME (PLEASE P	Julie L. Acevedo		TITLE Permit Age	nt ·		
SIGNATURE	filid according		DATE 7-8-03			
This space for State	uee only)		Disatton (<u> </u>	ut rolled	
			Inclinati	ر ما عر تم.	RECEIV	
API NUMBER ASSI	GNED:		APPROVAL:		HEGEIV	ED
					JUN 1 0 20	n.

(11/2001)

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DEVICED OF OUR CAS AND MINING

FORM 9

	DIVISION OF OIL, GAS AND MI			l l	SE DESIGNATION AND SERVAL NUMBER:
SUNDRY	NOTICES AND REPORT	S ON WEI	.LS		IDIAN, ALLOTTEE OR TRIGE NAME:
Do not use this form for proposals to drift or drift formation and formation and formation and formation are drift formation and formation and formation are drifted formation and formation and formation are drifted formation are drifted formation are drifted formation are drifted formation and drifted formation are drifted formation are drifted formation are drifted formation and drifted formation are drifted formation are drifted formation are drifted formation are drifted formation and drifted formation are dri	new wells, significantly deepen existing wells below out sterals. Use APPLICATION FOR PERMIT TO DRILL	rrent bottom-hate de form for such propos	offit, reenter plugged wells, or to sis.	<u> </u>	T OF CA AGREEMENT NAME:
OIL WELL	GAS WELL OTHER				Liname and number: TATE 21-19:432-160
2. NAME OF OPERATOR:		N22	30	9. API	NUMBER:
J. ADDRESS OF OPERATOR:	proction, Corp. 16800 I	mperiss	Valley Dr. IPHONE NUMBER	10 5	3-019-31399 ELD AND POOL, OR WILDCAT:
Ste 380 Hours	ton TK TROGO	,	8919318933		ndesignated
4. LOCATION OF WELL					
FOOTAGES AT SURFACE:				COUNT	N:
QTR/QTR, SECTION, TOWNSHIP, RAN				STATE:	HATU
11. CHECK APPI	ROPRIATE BOXES TO INDICAT	E NATURE	OF NOTICE, REPO	RT, O	R OTHER DATA
TYPE OF SUBMISSION			YPE OF ACTION		
NOTICE OF INTENT (Submit in Duplicate)	ACIOIZE ALTER CASING	DEEPEN	70247		REPERFORATE CURRENT FORMATION
Approximate date work will start:	CASING REPAIR	FRACTURE		님	SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON
.,,	CHANGE TO PREVIOUS PLANS	TXT OPERATOR		님	TUBING REPAIR
	CHANGE TUBING	PLUG AND		H	VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACI		Ħ	WATER DISPOSAL
(Submit Original Form Only) Date of work completion:	CHANGE WELL STATUS	PRODUCTI	ON (START/RESUME)	$\bar{\Box}$	WATER SHUT-OFF
Deter of work compressor;	COMMINGLE PRODUCING FORMATIONS	RECLAMAT	ION OF WELL SITE		OTHER:
	CONVERT WELL TYPE	RECOMPLE	TE - DIFFERENT FORMATION		
12. DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show all p	pertinent details in	ciuding dates, depths, volum	se, etc.	
NEW O	PERATOR:				RECEIVED
Υ	nsc Explorat	Ton	L.P. N2	595	JUL 1 5 2004
	16800 Imperi	al Va	lley Dr.		DIV. OF OIL, GAS & MINING
			3		
	Ste 380 Houston, TX	7706	Oma 12/3	الم	
	Bond #		. Nr // . k		
	effective /	Division	of Oil, Gas and M Russell, Engineer	lining ing Te	chnic ian
NAME (PLEASE PRINT)	n Faust				Exploration, Conp.
SIGNATURE	Faust	DATI	7-150	4	
(This space for State use only)					

(5/2000)

(See Instructions on Reverse Side)



State of Utah

Department of Natural Resources

ROBERT L. MORGAN Executive Director

Division of Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

December 2, 2004

Lynn Faust Solaris Exploration Corp 16800 Imperial Valley Dr, Suite 380 Houston, TX 77060

RE: Operator Changes for State 21-19#32-16D (API 43-019-31399) and

State 1-32 (API 43-019-31394) and Plugging

Dear Ms. Faust:

The Division of Oil, Gas and Mining is returning the Form 9, Sundry Notice and Reports on Wells unapproved for operator changes from Solaris Exploration Corp to MSC Exploration, LP for the referenced wells.

Rule R649-3-1(14.6.1) states "If the division determines that the new operator's bond coverage will be insufficient to cover the costs of plugging and site restoration for the applicable well(s), the division may deny the change of operator"

Call if you have other questions (801) 538-5336.

Sincerely,

Earlene Russell

Engineering Technician

Enclosures (2)

cc: Dan Jarvis

Bond file

Well files



STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES	5. LEASE DESIGNATION AND SERIAL NUMBER:
DIVISION OF OIL, GAS AND MINING	m L 46760
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT OF CA AGREEMENT NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: - Solaris State 21 +9 (32-160)
	9. API NUMBER:
2. NAME OF OPERATOR:	043-019-31399 10. FIELD AND POOL, OR WILDCAT:
MSC Exploration LP 3. ADDRESS OF OPERATOR: Ste 380 PHONE NUMBER:	1
1600 Imperial atalley Dr. Houseton, APX 77060 281931893.	31 WHARAC
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1270 FAL + 800 FEL	COUNTY: GRAND
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: AEHE 16 2)5 20E	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REI	PORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
ACIDIZE DEEPEN	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	U TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMAT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, v	olumes, etc.
Effective Date: 64/04	
Bond # 6801331643 RECEIVED	
ER 3/28/05 JAN 3 1 2005	
DIV. OF OIL, GAS & MINING	
Lynn Faust for Solaris Exploration, Corp L Faust	. V:ce.President 1-29-05
1 C M- Colontin Till ad an	instrator
NAME (PLEASE PRINT) Lynn FAUST for Msc Exploration TITLE adm	0.8
SIGNATURE A Jauxt DATE	- 29-65 <u> </u>
(This space for State use only)	. ·

(See Instructions on Reverse Side)

APPROVED 3/38/05 ERussell Division of Oil, Gas and Mining Earlene Russell, Engineering Technician

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET 0 1 0

R	OUTING_
1.	GLH
2.	CDW
3.	FILE

X Change of Operator (Well Sold)

The operator of the well(s) listed below has changed, effective:

Designation of Agent/Operator

Merger

FROM: (Old Operator):				TO: (New O	perator):	•		
N2230-Solaris Exploration Corp 16800 Imperial Valley Dr, Suite 380			N2595-MSC I					
			16800 Imperial Valley Dr, Suite 380					
Houston, TX 77060				Housto	on, TX 77060)		
Phone: 1-(281) 931-8933				Phone: 1-(281) 931-8933			
CA No)			Unit:				
WELL(S)								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	TYPE	WELL TYPE	WELL STATUS
STATE 1-32	32			4301931394		State	OW	S
STATE 21-19 (32-16D)	32	210S	190E	4301931399	13903	state	OW	TA
		<u> </u>			_			
		-						
OPERATOR CHANGES DOCUME Enter date after each listed item is complete 1. (R649-8-10) Sundry or legal documentation 2. (R649-8-10) Sundry or legal documentation	e d on was	receive	ed from			: 1/31/20		
3. The new company was checked on the De								5/10/2004
4. Is the new operator registered in the State5. If NO, the operator was contacted contact			_YES	Business Nur	nber:	5630131-01	181	
, .			ın:	IN PLACE				
6a. (R649-9-2)Waste Management Plan has b			111.		_			
6b. Inspections of LA PA state/fee well sites	comple	ete on:		n/a				

 Federal and Indian Lease Wells: The BLM and or operator change for all wells listed on Federal or Indian 	or the BIA has approved the merger, name change, leases on: BLM BIA
•	
 Federal and Indian Units: The BLM or BIA has approved the successor of unit ope 	erator for wells listed on:
9. Federal and Indian Communization Agreeme The BLM or BIA has approved the operator for all wells	
10. Underground Injection Control ("UIC") T Inject, for the enhanced/secondary recovery unit/project for	The Division has approved UIC Form 5, Transfer of Authority to For the water disposal well(s) listed on:
DATA ENTRY:	
1. Changes entered in the Oil and Gas Database on:	3/28/2005
2. Changes have been entered on the Monthly Operator Cha	nange Spread Sheet on: 3/28/2005
3. Bond information entered in RBDMS on:	3/28/2005
4. Fee/State wells attached to bond in RBDMS on:	3/28/2005
5. Injection Projects to new operator in RBDMS on:	n/a
6. Receipt of Acceptance of Drilling Procedures for APD/Ne	ew on: n/a
FEDERAL WELL(S) BOND VERIFICATION:	
1. Federal well(s) covered by Bond Number:	
INDIAN WELL(S) BOND VERIFICATION:	
1. Indian well(s) covered by Bond Number:	
FEE & STATE WELL(S) BOND VERIFICATION (R649-3-1) The NEW operator of any fee well(s) listed co	
The FORMER operator has requested a release of liability The Division sent response by letter on:	r from their bond on: n/a TLA bond reduced
LEASE INTEREST OWNER NOTIFICATION: 3. (R649-2-10) The FORMER operator of the fee wells has b of their responsibility to notify all interest owners of this ch	been contacted and informed by a letter from the Division
COMMENTS:	

	DEPARTMENT OF NATURAL RESO	URCES	
	DIVISION OF OIL, GAS AND N	1	5. LEASE DESIGNATION AND SERIAL NUMBER:
			ML 46760
SUNDRY	NOTICES AND REPOR	TS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
o not use this form for proposals to drill n	new walls, significantly deepen existing wells below marzis. Use APPLICATION FOR PERMIT TO DRIL	current bottom-hole depth, reenter plugged wells, o	7. UNIT OF CA AGREEMENT NAME:
DOT AT LETT			B. WELL NAME and NUMBER:
OIL WELL	GAS WELL MOTHER		ST 21-19 (32-160)
NAME OF OPERATOR:			8. API NUMBER: 043-019-31394 043-019-31399
ADDRESS OF OPERATOR:	loration, Conp.	776 GD PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
700 Imperial Vatt	loration, Comp.	00, Tx 281-931-8	933 wild cat
LOCATION OF WELL FOOTAGES AT SURFACE:	•		COUNTY: GRADD
QTR/QTR, SECTION, TOWNSHIP, RAN	ige, meridian: 32 2,15	96	STATE: UTAH
CHECK APP	ROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	MEW CONSTRUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of Book Companyor.	COMMINGLE PRODUCING FORMATION	IS RECLAMATION OF WELL SITE	OTHER:
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORM	ITION
DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show a	all pertinent details including dates, depths,	volumes, etc.
Pla c	hance Operation	en to:	
20	hange Operation, 1		
IND	- Exploration,	· · · ·	
	200 Imperial	Valley Dr.	
	780		
Ho	ston, TX 770	6	
		^ h	
AME (PLEASE PRINT)	Faust	TITLE Hans	nistrator
GNATURE C	Faust	DATE	23-05
space for State use only)			
			RECEIVED

DIV. OF OIL, GAS & MINING

MAR 2 3 2005

STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES**

DIVISION OF OIL, GAS AND MINING

DESIGNATION OF AGENT OR OPERATOR				
The undersigned is,	on record, the holder of oil and gas	lease		
LEASE NAME:				
LEASE NUMBER	l:			
and hereby designate	es			
NAME:	Tidewater Oil & Gas LLC	N3000		
ADDRESS:	1645 Court Place, Suite 301			
	city DENVER	state CO	zip 80202	

as his (check one) agent @ / operator @, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as 43-019-31401 STATE MSC 16-1 43-019-31402 CACTUS ROSE MSC 2-1 APPROVED 10125106 43-019-31404 FEDERAL MSG 26-1 43-019-31408 STATE MSC 35-2 43-019-31394 STATE 1-32 43-019-31399 STATE 21-19 (32-16D) * 43-019-31404 STATE MSC 35-1 Earlene Russell, Engineering Technician 43-019-31412 N THOMPSON 2-1

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effec	tive Date	of Designation: 10/10/2006	-		
BY:	(Name)	Michael Carphen	OF: (Company)	MSC Exploration, LF	N2595
	(Signature)	Wille Colon	(Address)	369 Florida Hill Rd.	
	(Title)	President		city RIDGEFIELD	
	(Phone)	(203) 994-1079	RECEIVED	state CT	_{zip} 06877
			I think to have A har be		
(6/2000)	1				

DCT 2 5 2006

Division of Oil, Gas and Mining

COMMENTS:

OPERATOR CHANGE WORKSHEET

ROUTING 1. DJJ

								2. CDW
	X - Change of Operator (Well Sold)			Opera	tor Name	Change/Merg	er	
,	The operator of the well(s) listed below has chan	ged, effectiv	ve:			2/12/2008		
FF	ROM: (Old Operator):			TO: (New O	perator):		····	
N3	000-Tidewater Oil & Gas Company, LLC			N3440-NAE, I	LLC			
	110 16th St, Suite 1200			16800	Imperial Va	lley Dr, Suite 38	0	
	Denver, CO 80202			Housto	n, TX 7706	60		
Pho	one: 1 (303) 327-7134			Phone: 1 (281)	931-8933			
	CA No.		-	Unit:				
WI	ELL NAME	SEC TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
	SEE ATTACHED LIST				110		1112	STATES
	PERATOR CHANGES DOCUMENT: ter date after each listed item is completed (R649-8-10) Sundry or legal documentation wa (R649-8-10) Sundry or legal documentation was	as received f	from the	NEW operator	on:	2/26/2008 2/22/2008		1/15/2009
	The new company was checked on the Depart		nmerce	Business Numl	-			1/15/2008
4a.				Business Numi	ber:	6666480-0161	-	
4b.	, <u>*</u>			INT DI ACCE				
	(R649-9-2) Waste Management Plan has been re			IN PLACE				
	Inspections of LA PA state/fee well sites complete the property of the Park to			ok	_			
	Reports current for Production/Disposition & S			<u>ok</u>	-			
6.	Federal and Indian Lease Wells: The BL							
_	or operator change for all wells listed on Federa	al or Indian	leases o	n:	BLM	not yet	BIA	•
7.	Federal and Indian Units:		_					
_	The BLM or BIA has approved the successor	-			:	not yet		
8.	Federal and Indian Communization Ag							
_	The BLM or BIA has approved the operator is				11110 5	n/a		•
9.	Underground Injection Control ("UIC"	•				orm 5, Transfer	of Autho	ority to
	Inject, for the enhanced/secondary recovery un	it/project fo	r the wa	iter disposal we	ll(s) listed o	n:	n/a	-
	ATA ENTRY:							
1.	Changes entered in the Oil and Gas Database			2/27/2008	-	2/27/2009		
2.	Changes have been entered on the Monthly Op Bond information entered in RBDMS on:	erator Cha	inge Sp	read Sneet on: 2/27/2008		2/27/2008	•	
3. 4.	Fee/State wells attached to bond in RBDMS on	.•		2/27/2008	-			
т. 5.	Injection Projects to new operator in RBDMS of			n/a	-			
	Receipt of Acceptance of Drilling Procedures for		v on:	W4	2/27/2008			
	OND VERIFICATION:	O. 122 271101	. 011			•		
	Federal well(s) covered by Bond Number:			UTB000296				
2.	Indian well(s) covered by Bond Number:			n/a	-			
	(R649-3-1) The NEW operator of any fee wel	l(s) listed co	overed b		- r	8030575893		
	The FORMER operator has requested a release	• •		-	2/22/2008		•	
	The Division sent response by letter on:			n/a		• 		
LE	ASE INTEREST OWNER NOTIFIC	ATION:						
4. ((R649-2-10) The NEW operator of the fee wells	has been co	ntacted	and informed b	y a letter fro	om the Division		
	of their recognitility to notify all interest arms	ma afthia ah	nna c=	-	n/a			

STATE OF UTAH

	DIVISION OF OIL, GAS AND MI		5. LEASE DESIGNATION AND SERIAL NUMBER:
	VIOTIOTO AUT DESCRI	A A 11 1 1 A	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
SUNDK	Y NOTICES AND REPORT	S ON WELLS	
Do not use this form for proposals to drill a drill horizontal i	new wells, significantly deepen existing wells below cur laterals. Use APPLICATION FOR PERMIT TO DRILL 1	ment bottom-hole depth, reenter plugged wells, or to form for such proposals.	7. UNIT or CA AGREEMENT NAME:
TYPE OF WELL OIL WELL			8. WELL NAME and NUMBER:
2. NAME OF OPERATOR;	-10442		SEE attached his
NAE, LLC	<u>N3440</u>		
ADDRESS OF OPERATOR: 16800 Imperial Valley Dr.	Y Ste. 380 HOUSTON STATE TX ZIP	,77060 PHONE NUMBER: (281) 931-8933	10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL			
FOOTAGES AT SURFACE:			COUNTY:
QTR/QTR, SECTION, TOWNSHIP, RAN	VGE, MERIDIAN:		STATE:
	. Effects No. 2017 (All Malacille, Company on 1997)	F - 40 - 5 1,11889	UTAH
11. CHECK APPI	ROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
☐ NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
****	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
SUBSEQUENT REPORT	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
(Submit Original Form Only)	CHANGE WELL NAME CHANGE WELL STATUS	PLUG BACK	WATER DISPOSAL
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	PRODUCTION (START/RESUME) RECLAMATION OF WELL SITE	WATER SHUT-OFF
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	OTHER:
12. DESCRIBE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all p		
IVAL, LLO WIII DE assumin	g all plugging and reclamation lia	whites for the wells on the schedu	ule attached hereto.
Effective Date: 2/12/08			
Federal Bond Number: U	TR000206		
State Bond Number: 8030			
Name: Tidewater Oil & G	as Company LLC. Address: 11	0 16th St., Ste 1200, Denver, CO	80202
	\\		
Signature:	Hane M	3000	
A 1			
Title:	<u>iques</u>		
Date: 02/21/03	B [°]		
Dato.			
MIC.	HAEL CORNISH	Man a (ala a	NAE
NAME (PLEASE PRINT)	11/1//	TITLE MANAGEN	10141-
SIGNATURE	MIL	DATE	
(This space for State use only)			RECEIVED
1 WWW VI	on 2127110		RECEIVED 1 2008
APPROVI	ED <u>3 1371 08</u>		FEB 2 2 2008

(5/2000)

(See Instructions on Reverse Side)

Carlese Russell (See Division of Oil, Gas and Mining Earlene Russell, Engineering Technician

DIV. OF OIL, GAS & MINING

well_name	sec	twp	rng	api	entity	lease	well	stat
FEDERAL MSC 26-1	26	210S	190E	4301931407	14785	Federal	GW	S
FEDERAL 7-34-2122	07	210S	220E	4301931484		Federal	OW	APD
BLACK HAT FED 18-43-2224	18	220S	240E	4301931495		Federal	OW	APD
OLD SAGERS FED 13-32-2222	13	220S	220E	4301931497		Federal	OW	APD
STATE 1-32	32	210S	190E	4301931394	13598	State	OW	PA
STATE 21-19 (32-16D)	32	210S	190E	4301931399	13903	State	OW	TA
STATE MSC 16-1	16	2108	200E	4301931401	14166	State	OW	S
STATE MSC 35-1	35	210S	190E	4301931404	14259	State	GW	S
N THOMPSON 2-1	02	210S	200E	4301931412	14376	State	GW	OPS
TIDEWATER ST 23-5	23	210S	230E	4301931466	16258	State	OW	PA
TIDEWATER ST 23-2	23	210S	230E	4301931467		State	GW	APD
TIDEWATER ST 23-1	23	210S	230E	4301931468		State	GW	APD

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

monanantei Mostierier	(This form should ac	company a Sundry Notice, Form 9, requesting APD transfer)	**************************************						
Well	name:	Discourse of the discount of	~ ¥						
	number:	- Please see attached schedul	<u> </u>						
Loca	ition:	Brain Course Transaction Control							
Com	pany that filed original application:	Tidewater oil + Gas Company	***************************************						
Date	original permit was issued:	The state of the s	***************************************						
Com	pany that permit was issued to:	Annual State Control of Control o	ing one of the general and an end-						
Check one		Desired Action:							
	Transfer pending (unapproved) Application for Permit to Drill to new operator								
adiya waxaa isaan	submitted in the pending Application fo	ights to drill on the property, hereby verifies that the information as or Permit to Drill, remains valid and does not require revision. The r grees to the information and procedures as stated in the application							
$\supset <$	Transfer approved Application for P	ermit to Drill to new operator							
		ights to drill on the property as permitted, hereby verifies that the usly approved application to drill, remains valid and does not require)						
	ated on private land, has the ownership	Control of the Contro	Yes N						
	If so, has the surface agreement been	updated? The proposed well which would affect the spacing or siting							
	rements for this location?	the proposed well which would affect the spacing or siting							
	e there been any unit or other agreement osed well?	ts put in place that could affect the permitting or operation of this							
	e there been any changes to the access osed location?	route including ownership or right-of-way, which could affect the							
Has	the approved source of water for drilling	changed?							
Have	e there been any physical changes to the s from what was discussed at the onsite	e surface location or access route which will require a change in evaluation?	ļ						
		pposed well? Bond No. 8030575893	X						
shou	desired or necessary changes to either a ild be filed on a Sundry Notice, Form 9, o essary supporting information as required	a pending or approved Application for Permit to Drill that is being tra or amended Application for Permit to Drill, Form 3, as appropriate, v d.	ansferre vith						
	ature	Date 2-26-08							
_	resenting (company name) NAF	LLC							
The p	· 2	to represent the company or individual(s) to be listed as the new operator on the App	olication f						

(3/2004)

RECEIVED FEB 2 6 2008

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: ML 46760
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7 LINIT or CA AGREEMENT NAME:
drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 1. TYPE OF WELL OIL WELL GAS WELL OTHER Dry Hole	8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:	Solaris State 21-19 #32-16D
NAE, LLC 3. ADDRESS OF OPERATOR: 1 PHONE NUMBER:	4301931399
110 16th Street, Suite 1220 Denver CO 280202 (303) 327-7169	10. FIELD AND POOL, OR WILDCAT: Wildcat
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1270' FNL & 800' FEL	county: Grand
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 16 21S 20E	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT (Submit in Duplicate) ACIDIZE DEEPEN ACIDIZE DEEPEN FRACTURE TREAT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON
8/29/2008 CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only) Date of work completion: CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATIO	Ν
NAE proposes to P&A the Solaris 21-19 (#32-16D) well and reclaim the location in a timel to Winter of 2008. Current open perforations are from 3879'-3898', 3070'-3090', and 2714 Class 'G' cement plugs mixed at 15.8 ppg with a yield of 1.15 cf/sx across each set of persetting a 100' surface plug with the same cement blend. NAE will then cut off the existing marker, and commence reclaiming the location pursuant to the requirements of the State Agreement. NAE would like to commence these P&A and reclamation procedures as soon as possible location prior to first frost. NAE currently has a rig on the Federal MSC 26-1 well to perfor to move that rig over to the Solaris State 21-19 #32-16D directly from that location. COPY SENT TO OPERATOR Date: 918.2008 Initials: US	F-2734'. NAE proposes setting 100' forations. In addition, NAE propses casing 3' BGL, install a dryhole of Utah and the Surface Use
NAME (PLEASE PRINT) Walter D Lowry SIGNATURE Walter D Lowry DATE Operations Ma	nager
APPROVED BY THE STATE APPROVED BY THE STATE OF UTAH DIVISION OF NG OIL, GAS, AND MINING DATE (5/2000) (5/2000) ASSOCIATED ASS	AUG 2 5 2008 DIV. OF OIL, GAS & MINING

Solaris State 21-19 #32-16D **Well Construction Diagram for P&A Approval**

Well: Solaris State 21-19 #32-16D Well Type: Directional API Number: 43-019-31399 Surface Location: 122' FSL & 994' FEL Surface Location: 122 FSL & 994 FEL

Bottom Hole Location: 660' FSL & 691' FWL

Total Depth: 4088'

Proposed P&A Date: 03 September 2008

Author-Version-Date: W. Lowry - Version 1 - 30 August 2008

Walter D. Lowry



S-T-R: Sec 32-T21S-R19E
Field: Wildcat
Lease Number ML-47441
Elevation (ft): 4,818'
KB to GL (ft): 12'
RKB (ft): 4,830'
Objectives: P&A well & reclaim surface

Formation Tops		Casing and Coment	Depth (ft)	Hole Size	Perforations
		Comenc	11" 3M Wellhead	J. Size	
Mancos Shale - Surface	cement + 2% CaC	Casing with 255 sx Type 5 Cl2 + 0.25 #/sx Flocele mixed a yield of 1.18 cf/sx. Pump gauge hole.		12-1/4" Hole	
	Surface:	9 5/8" 36# J55 STC (0 - 509')		bridge plug so 2600'-3850' ov	A <u>Procedure:</u> Remove Baker Model G et at 3004'. Set 3 P&A plugs. 1st Plug f/ ver existing open perfs and top of the val. 2nd Plug f/ 450'-550' across the
				surface casing surface plug. yield of 1.15 c	g shoe. 3rd Plug f/ 3' BGL to 100' as a All plugs will be mixed at 15.6 ppg with a f/sx. Cut off casing 3' BGL. Weld on dry Pull cellar ring. Fill cellar. Reclaim
erron Sandstone @ 1629'	lead cement 65/3	asing cemented with 325 sx 55 Class "G" Lite salt at + 0.25 #/sx Flocele mixed at ald of 2.08 cf/sx followed by		/ 	DIRECTIONAL INFORMATION (SEE ATTACHED SURVEY
uana Lopez @ 1951'	720 sx tail cemen saturated + 2% go fluid loss additive 15.1 ppg with a yi	nt of 50/50 POZ salt tel + 0.25 #/sx Flocele + 2% e + 0.2% dispersant mixed at rield of 1.98 cf/sx. BBLS OF GOOD CEMENT		8-3/4" Hole	LISTING): The well was directionally drilled pursuant to tattached survey listing with a KOP at approximately 2000 BUR of 1.5"/100", a terminal inclination of ~ 12", and an azimuth of 30°. The projected BHL has a vertical section ~ 540' and coordinates of ~ 660' FSL and 691' FEL of Section 32-T21S-R19E Grand County, Utah.
akota Silt @ 2534'					
akota Sand @ 2695'					
edar Mountain @ 2740' Iorrison @ 2840' (Top of th	ne Jurassic)	Remove Baker "G" Bridge Plug set @ 3004' prior to setting cement plug.		Existing Perio	<u>rrations</u> f/ 2714-2734'
alt Wash @ 2920'				Existing Perfo	orations f/ 3070-3090'
idwell @ 3240'				Existing Perfo	orations f/ 3598-3618'
loab Tongue @ 3594'					
ntrada @ 3700°				Existing Perfo	orations f/ 3754-3775', 3775-3795'
	Log	g from 4088' to 508' MD w/			
op Salt @ 4070' aradox Salt @ 4076'		oole Sonic, FMI & Microlog	3999' TVD	Previously P&	<u>A'd Perforations</u> f/ 3864-3898', 3939-3955'
D 4088' MD, 3999' TVD	Production C	Casing: 7" 23# J55 LTC (4088')	4088' MD		

Wellbore Dia	gram				r263
ait No:	Well Nam	ie/No: STA	ГЕ 21-19 (32	2-16D)	***************************************
SE String Info	ormation				
Chris a	Bottom	Diameter	_	_	Capacit (f/cf
_	, ,	, ,	(lb/ft)	(ft)	(f/cf
			36		
HOL2	4088	8.75	30		
PROD	4088	7	23		4.524
10 × 1					,
11-120 SX					
reg					
Cement In	formation				
Litag	BOC	TOC	~	~ •	
String	(ft sub)	(ft sub)			
			30	720	
5014	20)	v			
Perforatio	n Informat	ion			
Тор	Bottom	CI	. N. CI	. D . C	
W@ 3004 (ft sub)	(ft sub)	Shts/	Ft No Sh	its Dt Sque	eeze
3864					
30V0					
24) + 10, 50, 0					
11/60/					
	1				
@3004 ¹					
Formation		on			
Formatio	_				
240 5 (PASH)					
reg COMTN	2740				
MRSN	2840				
SLTW	2920				
PRDX	4070				
_					
	Perforation Perforation Top (ft sub) 3864 3598 24) Poyl b2 600 Formation Formation Formation Formation Formation Freq PROD PROD PROD PROD PROD PROD PROD SURF	String Information Bottom	String Information	String Information String (ft sub) (inches) (ib/ft)	No: Well Name/No: STATE 21-19 (32-16D)



State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL

Well Name and Number:

Solaris State 21-19 #32-16D

API Number:

43-019-31399

Operator:

NAE, LLC

Reference Document:

Original Sundry Notice dated August 22, 2008,

received by DOGM on August 25, 2008.

Approval Conditions:

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Mark Jones at 435-820-8504.
- 2. Every attempt shall be made to recover the bridge plug @ 3004'. If it can be removed, a plug shall be placed from the CIBP @ 3850' to 2600' (±240 sx) as proposed in the wellbore schematic plan. If the bridge plug cannot be removed, a 404' plug shall be placed on top of the plug from 3004' to 2600' (±78 sx). This should isolate the mainly Entrada non-productive zones below from the Dakota, Morrison and Mancos formations above.
- 3. Plugs # 1 & 2 shall be tagged to ensure they are at the approved depths.
- 4. Surface reclamation shall be done in accordance with R649-3-34 Well Site Restoration. Evidence of compliance with this rule should be supplied to the Division upon completion of reclamation.
- 5. All annuli shall be cemented from a minimum depth of 100' to the surface.
- 6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
- 7. If there are any changes to the plugging procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.
- 8. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Dustin K. Doucet Petroleum Engineer Date

September 3, 2008

DNR

STATE OF UTAH AMENDED REPORT FORM 8 **DEPARTMENT OF NATURAL RESOURCES** (highlight changes) DIVISION OF OIL, GAS AND MINING 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46760 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG NA 1a. TYPE OF WELL: 7. UNIT or CA AGREEMENT NAME Well 🗆 GAS U 1 DRY OTHER NA b. TYPE OF WORK: 8. WELL NAME and NUMBER: DEEP-WEW DIFF RESVR RE-ENTRY Solaris State 21-19 #32-16D OTHER 2. NAME OF OPERATOR: 9. API NUMBER: NAE, LLC 4301931399 3. ADDRESS OF OPERATOR: PHONE NUMBER: 10 FIELD AND POOL, OR WILDCAT 110 16th St. Ste. 1220 STATE CO ZIP 80202 CITY Denver (303) 327-7169 Wildcat 4. LOCATION OF WELL (FOOTAGES) 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: AT SURFACE: 122 FSL, 994 FEL Sec 32-T21S-R19E 32 21S 19E SESE AT TOP PRODUCING INTERVAL REPORTED BELOW: 12. COUNTY 13. STATE AT TOTAL DEPTH: 556 FSL, 679 FEL Sec 32-T21S-R19E UTAH Grand 14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: 17. ELEVATIONS (DF, RKB, RT, GL): ABANDONED 9/6/2003 READY TO PRODUCE 10/13/2003 4818' ungraded 19. PLUG BACK T.D.: MD 3.004 18. TOTAL DEPTH: MD 4,088 21. DEPTH BRIDGE 20. IF MULTIPLE COMPLETIONS, HOW MANY? * MD 3.004 PLUG SET: TVD 4,000 TVD 2.980 TVD 2.980 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) 23. WAS WELL CORED? NO 🗸 YES (Submit analysis) Platform Express- Triple Detector Density- Compensated Neutron WAS DST RUN? NO 🗸 YES (Submit report) DIRECTIONAL SURVEY? NO [YES (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well) STAGE CEMENTER DEPTH CEMENT TYPE & NO. OF SACKS SLURRY VOLUME (BBL) HOLE SIZE SIZE/GRADE WEIGHT (#/ft.) TOP (MD) BOTTOM (MD) CEMENT TOP ** AMOUNT PULLED 12.25 9.625 36 0 K55 508 8.75 J55 23 0 4,088 25. TUBING RECORD SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 26. PRODUCING INTERVALS 27. PERFORATION RECORD FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) INTERVAL (Top/Bot - MD) NO. HOLES PERFORATION STATUS SIZE (A) None 3.864 3,955 Squeezed Open (B) 3,754 3.795 Squeezed (C) 3,598 3.618 Open Squeezed (D) 3.070 3.090 Onen RECEIVED 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL <u>SFP n 3 2008</u> DIV. OF OIL, GAS & MINING 29. ENCLOSED ATTACHMENTS: 30. WELL STATUS: ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DIRECTIONAL SURVEY DST REPORT Shut-in

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

OTHER:

CORE ANALYSIS

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PR	ODUCED:	TEST DATE		HOURS TESTE	D:	TEST PRODUCTION RATES. →	OIL BBL:	GAS MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS	API GRAVITY			24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
				ראו	ERVAL B (As sho	wn in item #26)	A			
DATE FIRST PR	ODUCED:	TEST DATE		HOURS TESTE	D.	TEST PRODUCTION RATES: →	OIL BBL:	GAS MCF:	WATER + BBL:	PROD METHOD:
CHOKE SIZE:	TBG. PRESS	CSG. PRESS	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL	GAS – MCF	WATER BBL:	INTERVAL STATUS:
				TNI	ERVAL C (As sho	vn in item #26)	.			
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTE	D.	TEST PRODUCTION RATES: →	OIL - BBL	GAS MCF	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG PRESS	CSG. PRESS	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES. →	OIL BBL:	GAS MCF:	WATER - BBL:	INTERVAL STATUS:
				INI	ERVAL D (As sho	vn in item #26)				
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS MCF:	WATER - BBL:	PROD. METHOD
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF	WATER - BBL	INTERVAL STATUS:

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Ferron Sandstone	1,629	1,951		Ferron Sandstone	1,629
Dakota Sandston	2,695	2,740		Juana Lopez	1,951
Morrison	2,840	2,920		Dakota Sandstone	2,695
Salt Wash	2,920	3,240		Cedar Mountain	2,740
Moab Tongue	3,594	3,700		Morrison	2,840
Entrada	3,700	4,070		Salt Wash	2,920
Paradox Salt	4,076	4,088		Tidwell	3,240
				Moab Tongue	3,594
				Entrada	3,700
				Top Salt	4,070

35. ADDITIONAL REMARKS (Include plugging procedure)

Will submit a Sundry after P&A operations are complete. See P&A Schematic for proposed P&A procedure.

36. I hereby certify that the foregoing and attached information is complete and correct as	determined from all available records.	
NAME (PLEASE PRINT) Walter D. Lowry	TITLE Operations Manager	
SIGNATURE	DATE 9/2/2008	

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

^{*} ITEM 20: Show the number of completions if production is measured separately from two or more formations.



Directional LLC 289 South Center St. \$18 1305 Casper, Wyoming 82601 Ph. 307-237-3130 Fx. 307-237-3135

Survey Calculation Sheet

Company Solaris Exploration

Well State 21-19 # 32-150

Field

Rig Excell # 14

Mag. Decl. 11.20 Target TVD 4886 Target Az. 31,83

	. Kep.	Marchwic		A 202				Tgt. Coor.				
Date	No.	DEPTH	INC.	AZM C.L.	T.V.D.	V.S.	N/S	E/W	DLŞ	₿\Ď'	R/L	BHA
Ne - In								,				1
	1	135	2.0	1000 135	134,97	0.64	0.65 3	2.26 E	1.48	1,48	78.52	1
	2	250	2.6	100 0 115	249.88	1.87	1.89 8	6.80 E	0.43	0.43		1
4	3	345	3.0	106.0 95	344.77	3,12	3.15 5	10.99 E	0.53	0.53		1
	4	463	3.0	108.0 118	462.61	4.80	4.85 3	18.92 E				1
	5	518	4.4	106 D 85	517.50	5.77	5.83 S	20.33 E	2.55	2.55		1
	6	579	4.5	103.0 61	578.31	7.15	7.05 8	24.91 E	0.31	0.16	-3,44	1
	. 7	642	4.6	1194 63	841.11	8.41	8.52 S	29,67 E	0.83	0.16	10,32	1
	8	705	4.7	102 5 63	703.91	9.77	9.98 5	34.56 E	1.05	0.16	-12.85	1
16-Sep	9	769	4.8	923 53	766,69	11.93	10.81 S	39,72 E	1.32	0.16	-15.87	1
	10	830	.5.0	85 62	828.47	14.81	10.51 S	45.00 E	0.98	0.32	-10.8£	1
	11	889	4.8	77.5 59	887.25	18,05	9.78 8	49.98 E	1.22	-0.34	-13.73	1
	12	952	4.7	73,3 63	950.03	21.83	8.46 S	55.02 E	0.57	0.16	-6.67	1
	13	1015	4.8	70 1 63	1012.82	25.83	6.83 S	59.97 E	0.45	0.18	-5.08	1
	14	1078	4.9	69 8 63	1075.59	30.02	5.00 \$	64.98 E	0.16	0.16	-0.48	1
/1 	15	1138	4.9	86.0 60	1135.37	34.11	3.15 5	69.76 E	0.26		-3.00	1
()	16	1198	6.5	40 2 60	1195.08	39.42	0.03 N	74.71 E	4.06	2.67	-31.33	1
	. 17	1281	7.3	44.4 63	1257.62	45.73	5.22 N	80,21 E	1.56	1.27	-7.62	1
· ·	. 18	1325	8.4	48 B B4	1321.17	54.15	10.58 N	85.63 E	1.45	-1.41	3.13	1
	19	1388	6.2	49.2 63	1383.79	60.80	15.22 N	90.75 E	0.58	-0.32	4.44	1
7	20	1451	5.6	81,5 63	1446.45	65.93	19.35 N	95.74 E	1.04	-0,95	4.13	1
17-8ep	21	1514	5.9	51.5 63	1509.14	72.57	23.27 N	100.69 E	0.48	0.48	-0.48	1
	22	1578	5.7	49.0 62	1570.82	78.81	27.27 N	105.51 E	0.52	-0.32	-4.03	1
	23	1637	5.9	45(4 61	1631.51	84.76	31.47 N	110.02 E	0.72	0.33	-6.35	1
	24	1700	5.9	37.8 83	1694.17	91.13	35.33 N	114.28 E	1.26		-12.22	1
	25	1781	8.2	34,8 61	1754.83	97.54	41.52 N	118.06 E	0.67	0.49	-4.26	1
-	26	1822	6.2	22,5 61	1815.48	104.08	47.27 N	121.20 E	2.17	 	-20.16	1
	27	1885	5.8	18 68	1878.13	110.54	53.43 N	123.51 E	0.93	-0.63	-6.51	
8 Bep	28	1946	6.2	23.0 61	1938.80	115.79	59.39 N	125.77 E	1.02	0.58	7.54	2
4.3	29	2009	7.0	26,8 63	2001.38	123.97	65.96 N	128.80 E	1.40	1.27	5.24 7.54	2
N	30	2070	8.0	30.9 81	2061.86	131.92	72.94 N	132.63 E	1.91	1.64		7
	31	2131	8.9	32.3 61	2122.20	140.88	80.57 N	137.33 E	1.51	1.48	2.30	2
	32	2194	9.3	37.6 68	2184.40	150.84	89.03 N	142.80 E	0.86	0.63	-1.11	
	33	2255	9.8	31.1 61	2244.58	160.95	97.67 N	147,86 E	0.83 1.77	0.82	-0.82 0.15	2
<u> </u>	34	2317	10.9	31.2 02	2305.55	172.10	107.20 N	153.82 E		1.77		
<	35	2381	11.3	36,2 64	2368.35	184.42	117.80 N	159.91 E	0.69	0.63	-1.58	2
	35	2445	11.3	27.6 64	2431.11	198.94	128.77 N	165.97 E	0.80		-4.06 -5.97	2
	. 37	2507	11.6	23.9 62	2491.88	209.17	139.85 N	171.31 E	1.28	0.48		
9-Sep	38	2870	12.0	23 7 63	2553.55	221.93	151.64 N	176.51 E	0.64	0.63	-0.32	
	39	2632	12.5	25.4 62	2814.14	234.98	163.61 N	181.98 E	0.99	0.81	2.74	2 2
10-6ep	40	2698	12.0	24.9 63	2675.70	248.25	175.70 N	187.88 E	0.81	-0.79	-0.79	
	41	2757	11.6	27.2 62	2738.39	280.78	187.36 N	192,63 E	1.38	-0.65	-5.97	2
	42	2819	11.6	16.1 62	2797.13	272.96	199.07 N	196,90 E	0.75		-3.71	
	43	2881	11.5	23.2 62	2857.87	285.17	210.85 N	201,36 E	1.40	-0.16	6.94	2
لـــــا	44	4944	44.4	KO 4 DE	48.84	A01.00L	444764 64	449,44 12	W.70	¥.44	9.00	4



Directional LLC 259 South Center St. 819 #306 Casper, Wyoming #2001 Ph. 307-237-3130 Fx. 307-237-3135

S

Survey Calculation Sheet

Company Solaris Exploration

Well State 21-19 # 32-16D

Field

Rig Excell #14

Dir. LLC Rep. Marchwick / Correa

Mag. Decl. 11,20

Target Az. 31.83

Tgt. Coor, 1

	` •					•					,,		
Date	No.	DEPTH	INC.	AZM	C.L.	T.V.Ö.	V.S.	NIS	EW	DLS	B./D.	R/L	BHA
Tie - In							,						1
0-4	45	3006	12.0	25,6	53	2980.26	310.38	233.70 N	212.04 E	0.49	0.48	0.48	2
	46	3069	11.7	25.4	63	3041.92	323.24	245.37 N	217.61 E	0.48	-0.48	-0.32	2
	47	3131	12.0	25.4	52	3102.60	335,69	256,97 N	223.07 E	0,44	0.48		2
	48	3193	12.0	26.7	62	3163.24	348,71	268,45 N	228,73 E	0.44		2.10	2
	49	3256	12.5	27.8	63	3224.81	362.04	280.35 N	234.83 E	0,88	0.79	1.43	2
21- 3 ep	80	3319	12.5	26.1	63	3284,32	375.62	292.51 N	240.99 E	0.52		-2.38	2
	51	3382	12,7	25.8	83	3347,80	389,29	304.87 N	247.00 E	0.33	0.32	-0.48	2
	52	2445	12.9	26.3	63	3409.23	403.18	317.41 N	253.13 E	0.35	0.32	0.78	3
	53	3506	13.4	29.0	81	3468.53	417.01	329.89 N	259.58 E	1.30	0.82	4.43	3
22-3op	54	3571	13.6	32.0	66	3531.84	432.18	342.76 N	267.28 E	1.12	0.31	4.52	3
23-Sep	56	3632	12.8	31.2	81	3591.23	448.11	354.62 N	274,58 E	1.35	-1.31	-1.31	3
	56	3695	13.0	29.7	63	3652.64	460.17	366.75 N	281.70 E	0.52	0.32	-2.38	3
	57	3758	13,0	27.0	63	3714.02	474.31	379.22 N	288.43 E	0.90		-4.29	3
	58	3820	12.4	23.4	62	3774.51	447.84	391.54 N	294.24 E	1.60	-0.97	-5.51	3
	59	3883	12.4	21.8	63	3836.04	501.19	404.03 N	299,44 E	0.55		-2.54	3
25-8ep	60	3947	12.4	21.8	64	3898.54	514.73	415,78 N	304.54 E				5

PAGE 01/01

Temples Oil Well Service, Inc.

P.Ó. Box 765 • Vernal, Utah 84078 (435) 789-2760 • Fax: (435) 781-1540 TERMS: NET 30 DAYS

1 12 % PER MONTH WALL BE
CHARGED AFTER 30 DAYS

To Solar	ris ex	Ploration	Piq	No. 2)	Date: 10	-/3-C	<u>) \$</u>	·
Address:			Ls	ase: 57	ne al	-14	Well NoS	2-161	<u>) </u>
			Ci	stomer Ord	ter No.				
Pull Out	of Hote			Fla	n in Hole				
Joints	. Feet	Description	Malı		1	Description		Joints	Feet
graco	SPS/TIN	18500	Polist	1. Hed				4	
	Tanks	you.	Poney Rod						******
E E 1 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Toute 7	10,602 43	Ro						
Schlund	167 -	10,697 00 (MILY 16284)	Ro Ro			***************************************		 	
	18.9	4142/8	Pun					 	***************************************
DESCRIPTION	ON OF WORK	PERFORMED:	-	E	lequested	***************************************			Amount
,		and the second s	*		Dave 1			∑_Hours	
6:30AM	Z'OSAM	CIEW TIQUEL I SAFETYM	GETING	Derrickm	an $B///Y$	<u>OUNG</u>	<u>i</u>	3 Hours	<u> </u>
		PUMP lives STAY A	way	Floormar	OSCAL	Willi	aris L	3 Hours	<u> </u>
***************************************		while lines Have Pre	25546	Floormer	Dallas	RICH	ins L	3_Hours	
7:05 Am		SITPO SICPOT RIH							
	, , ,	SWAB F.C. 3400' NOGAS		1	s Unit, Crew Chief	3 Men	12 Hours	0 206 Cl	247
A. A. B. B. S. A. S. A. S. B.	1 1 1					7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1	0/300	1300
77.74.		0,1 R/D SWOD RILLYO		Crew Tra	1				
1. 200m	1 1 1	Released PKr R. H. Reve		1	Circ Equipmer	<u>¥</u>	Hour	** 70,5C	JEQ.
***************************************		PILIS POOH SET SHOW		Chass	Circ Tank		Hours		
<u>2:30Am</u>	11:00AC	BIU SCHIUMbeger TOF	PELE_	Pusher	MIKE B	rever	DON Hour	10.50°CC	300,
		NEW ZONE AT 3070	- 3090	Pusher T	fravel			040,00	400
	1 1 1	R/O wireline		Pick up C			NCO.		T
HOORM		BIHWIPKIT Plug se	7 880	- 	······································			60 /.5 C/Gal	75.0
		3162 PKT 3024 R/4:		Crew Sul		· · · · · · · · · · · · · · · · · · ·		1/1/2 Minn	5777
2:00PM	230Pm	STARTING F.C. 1000 MG	110	Wet Strin	***************************************	 	men		
		Il Run's Recovered		-		*****************	NE e		1
,	1 . ! 1	TRUE OFFILL LIGHT SI		1	Type Elevators		6		
	1 1 1			T	····//////////////////////////////////	······································		•	
		OF gas Fluid Jevers	<u>Marel</u>	1		······································	6		
7.2.0	21200	Des AT 2400 RIDS	500	Rod Fish Tong	·······		Ti.	ip @ _	
<u> 0,000m</u>		Released PKI RiH Pa		Dies F	ostor BJ peck	·		/Eact	!
***************************************	 	PLUGTO BOOL! SET F	149	Stips	27, 57	} ^{3+/} .	1sel e	/SC	150.
***************************************		POOHWITH TRY? PK.		Oil Saver	Rubbers		<u> </u>	14, CC Each	28
2/30PM	4:30 Am	BILL SCHLENBERGET PERI	NEW	Gwato Cups	11/4 11/5 C		24 .	2700	1080
		ZCAR 2714-34 BID.		Pipe Wip	er Rubber 9"	12"	17*	⊚ /Each	
	1 ! 1	Live		Rod Wice	er Rubber Pigtel	Disc	a		
4:30Pm	7.copm	RIHWIPKITO2683'R	14		ication Charge	3	PHENES	Fach	(7)6
		SWAS IL 900 Made		1	neous Charges			/VQY	T
		Rung Swaber wellder R	X			RHID	SALES 2 1	16/23 7/70	†
- Action Control of the Control of t		BIOKE dr. WELL AT 1800	Ti Roma	7	and the second second	13/ 49 100	CATANT TO 1	1 9 11 Jy	1
	1 1			1					
		Of Well Ritty two (Tal)	Trong 1.	346	ace mad	CURU	N 1 (CA		J-110
APPROVED B	W. 7: 151.	SHYTWELLING.	f	 	\$482 (3)	***************************************		Sales Tax	
	10000	were well note	·····	1,,,,,	***************************************	***************************************	Total	41422	-5

PAGE 03

Temples Oil Well Service, Inc.

P.O. Box 765 • Vernal, Utah 84078 (435) 789-2760 • Fax: (435) 781-1540 TERMS: NET 30 DAYS
1 12% PER MONTH WILL BE CHARGED AFTER 30 DAYS

To: 50/0	145 6	ZPIOCATION	Rig	No.	<u> </u>	Date: 10	-/2-	<i>a</i>)	
Address:			Lei	ase: 57	9Te 8	21-19		32-161	<u></u>
***************************************				stomer Ord			And the close y section again, and a section again.		
Pull Out	of Hole	3		·	in Hole	-	······		-
Joints	Feet	Description	Mate	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	THITIGE	Description			1
Glace	BORITA	· ·	Polish		***************************************	resortiviou	wimin www.asc.asc.popus,	Joints	Feet
JIACO	Tracks		Poney	Rod		***************************************			
	TOWNET	20,00	Roc			***************************************	***************************************		
Schrien	1200/	5759.82	Flox	is			***************************************		1
***************************************	17,9	120,00 Quix 10,99	**************************************			1 1.55			
DESCRIPTION		K PERFORMED:	Pun Pun	Pusher R	enuested	·	·		4
**************************************		3			***************************************	CEIGINI	J	A Hours	Amount
G.30AM	7:00Am	Grew Travel				KIN G	· /	Hours	
7:0000	7:051	SARETY MEETING! HA	nd Rails		OSCALL	0.11.00	- C /	2 Hours	
		TOPPOLENT FOLLOWS OF	& Tiens	i .	Dallasi			2 Hours	-
7.0500	10:31 AV	SITE OF SICE OF	22	Extra Lab	•	in the second	<u> </u>	-CIUW I	+
		RIU SWALD STAITING F.	1 terns	**********	Unit, Crew Chief	₹ Men	17	s0206.0	رردوان
		Made ? Runic Recou				Meli		***************************************	2266
***************************************		13 BBIS Waited 42 HO		Crew Tran		Ł	Hour Hour	8 <u>0 130,00</u>	130.0
***************************************	1					Curj		rs 0 20 ^{CO}	285
		150 OFENTLY TIGGE OIL			Circ Tank	<u>-</u>	Hour		
		945 1881 waited 1 He			MIKE BI	CUCK	;	rs@_722_C6	300,0
		Had 300 BNILY 1.75 BE		Pusher Tr		18-4-4-00 410-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Hour	s@_40	40.0
1000		Whited I'M Recoverd 1	12BUS	Pick up Ct	narge			day	<u></u>
10.30AM	10:30A	RIDSLAG RIHTOPILLY PI		Diesel Fue	d .		50 gallor	150 / 5 C/GE	1/5,00
***************************************	<u> </u>	PHUGIC 3650' SET PRIA		Crew Subs	sistance	**************************************		@ <u>/00 °</u> Mai	San
		ZILLEGTBY WARBIS PYON		Wet String		-	men		1
		AMFIRT 2600 Chrised W.		Trailer Hou	IS9		6	/Day	
***************************************		AT MIGOTISIPTOE Made	64	MYT Slip 1	ype Elevators)/Day	
		Ryn's swabed we	11014	21/16-15	Oles & Slips			/Day	1
2:30/2	a confin	RIDSWAD REJENCED	0149	Rod Fishin	g Tool		Ţ	rip 0	1
		TPKI POOH		Tong Dies Fos	ior 8J peck	The state of the s		/Eac	h
2,00Pm	3'00 Pm	RIGWHELINE SHOOT IN	vew	Sips	2 ^N , 2 ^N ,	37/4	0	/Each	-
		20110 3775 - 3795	RIO	Oil Saver F			2 e	11.16	···
agan	GROAM	RIH WIPKI PHUGROP		Swab Cups	1 1/4 EB 1 1/2 27/ 2 1/16 3 1/	e Seed B Vrine Z Audher	ing a	1966	1000
	1	PKIAT 3708 Ry SWG		Pipe Wiper				Ø /Each	12.
				Rod Wiper	7,			***************************************	
	į.	D		***************************************	**************************************	Disc		/Ench 「たん」/Day	 _
	Ì	000 - 11.000		***************************************	ation Charge ous Charges	namadad haddanada, addadkanay kayan biyanay ay		/ <u>/</u> //////////////////////////////////	50,00
		I HOUT HAD NOFKING		miscellane	uus Unarges	·		**************************************	
		HIST WALLER	ex CIVIII			***************************************	······································	**************************************	1
6,00Am	6.3000	(1013 TIMO)			PARAL Merchant (gradina) (and the sales of t				-
	17.594.77	half and fileth &		····			***************************************	S . t . **	10161
APPROVED BY	: 1					والمراوية المراوية والمراوية والمراو	and the committee to be about the committee of the commit	Sales Tax	14/2
***************************************	į.						Total	3700	R

PAGE 02

Temples Oil Well Service, Inc.

P.O. Box 765 • Vernal, Utah 84078 (435) 789-2760 • Fax: (435) 781-1540 TERMS: NET 30 DAYS
11/2 % PER MONTH WILL BE
CHARGED AFTER 30 DAYS

To: 50/a	11.5	C	X Plotatio	N	Rig	No.		Date: /	0-11-0	3	
Address:					Le	ease: < 77	77£ 21			2-16D	***************************************
	3				1	ustomer On					
Pull Out	ol Hole					*************************************	in Hole	······································		· · · · · · · · · · · · · · · · · · ·	
Joints	Fe	et	1	Description	Mat	erial	I di I NG	Description			T
91060	13005	Cru 2	10500			n.Red				Joints	Feet
*	Ton	Æ\$	140,00		Pone	y Rod		······································			
Sepurib.	10,0		10717 30	~~~	Ro	ods Xds		40			
	8.5	*******************************	79.9.60		*	xds	#=+5	40			
DESCRIPTIO		IUBK IVIV	PERFORMED:	148.81.92	Pur	nps					
		· · · · · ·	r Litt VilliLD.	**		Pusher R	oquesied Dave 7	Top In all	<i></i>	5 Hours	Amount
(e:30Ar	7:00	322)	CIEU TI	raue I			A .	coung	<u> </u>	Hours	
7:00Am	7:05	ac)	SAFETY M	ideting! we	WING			Willie	rry () (Hours	
			Derrick B	LEIT AUTIME	2 416.80	Flooman	Dallas	Deline	<i>C</i> / 3	Hours	1
*****			NThe 1	Derrick		Extra Lab		0.5-10/10	<u> </u>	nvuls	
7:05 Am	9/30			SICP-OF	BH		Unit, Crew Chief	3 Men	77	2 , 60	-
	drawn (da	- 1		NA STAITING				Men	12 Hours@		24%
										130,00	130,0
	·	1,	200 20 1	JT. TO SUNAL	ana,	/ Class/	7 Unc Equipme	nt	Ly Mourse	70:	280°
	1			5 RUNS SA		1			Hours 0		
9:3000	10.25		<u> Per Goe</u>	UN TO 320	0	Pusher /	Mike 1	SELVE!	DG/Y Hours	30.00	300
113/10	102. 3	2777	210 SW	96 R/U 701	1295	Pusher Tr	***************************************	·	/Hours@	40,00	40.00
10.3 - 0	171	-0	POOH WA	WIRG	***************************************	Pick up Cr	large		NCON	/////////////////////////////////////	
2, 20140	10.00			eline to P		Diesel Fue	<u> </u>		20 gallons@	1. 5°C Gal.	75,0
			<u>Veu Zon</u>	<u>e Flori 3754</u>	-75	Crew Subs	istance	***		ICG COMan	SEGG
. 2		$-\frac{1}{2}$	KID WILL	ELINE		Wet String			men@_	/Man	
dicopri	Last	1/2	SIH WIF	OKT 3278 SETT	01.3RE	Trailer Hou	se		NC 0	NC /Day	
Cappa	Siant		14 56196	FLARO M	ude	MYT Slip T	ype Elevators		0	/Day	
	j.			aned well h		2 1/16 - 1.9	Dies & Slips		8	/Day	
		_ /	16 Primp	lines plane	ed du			······································	Tripe		
			By Well	1 BIOKE ATAS	100	Tong Dies Fos				/Each	
				Rose of 2/2		Steps	2 ¹ , 2 ¹ ,	34,	0		
				ISIP SEDEL R		Oil Saver R				/Each	1.00
		S		Stafface Mac		Swab	1 1/2"	2 3/8 3640 2 7/8 Wise	7 3	7 Fach	16.
		R		pieca 3 12 R		Cups Din = 145	2105	1/2" Rubber	<u> </u>	/Each	54,
	1	6		HT SHOW OF GA	_ [Pipe Wiper	***************************************		17 6	/Each	
3:COPM	1 :CASE	2012	10 Cl. 119			Rod Wiper I			PHONES 1	/Each	
			14 WHE11	Keleased PKI	<u>-</u>		ition Charge		1 100,000	O Day	500.
	7 : 24.	1	598-361	W		Miscellaneo	ius Charges	***************************************	······································	····	*************
30Pm 7	71) 11 10 101	8 RIO WILL	101E	······································	·				
SOMM 1	000		CHLIPPEL	KUP SETPIL	9	**************************************		······································	· · · · · · · · · · · · · · · · · · ·		
115000	,	138		56 Alusumb SI	461	12111	N.				······································
10044 7 APPROVED BY:	1:30P/	<u> </u>	CRUJ TI	augi		·····	······	*····	······································	Sales Tax	
	<u> </u>	····	·//						Total 3	4146	o i

9850

NO.

Temples Oil Well Service, Inc.

P.O. Box 765 • Vernal, Utah 84078 (435) 789-2760 • Fax: (435) 781-1540

TERMS: NET 30 DAYS
1% % PER MONTH WILL B.
CHARGED AFTER 30 DAY:

Address:					Date: 10-10		
			Lease:	<u> </u>	21-10/ Well No	0 32-160	
			Custon	ier Order No.			~ *****
	Out of Hote			Ran In Hole	***************************************	***************************************	*************
Joints	Feet	Description	Material		Description	Joints	Feet
V	COP TIL	185,50	Polish Rod				1
Baker	ZIBP	1300,00					
	Tripks ToleT	20.00	Poney Rod				
	$\rho_{P_{\overline{A}}}$	1200,00	Rods				
***************************************	R. 9	246184	Rods Rods				ļ
	TOTAL	50.985.37	Pumps				
DESCRIPTION (OF WORK PER	FORMED:	Pos	ner Requested	***************************************		1
	The second secon				5 2 2 2 2 2 2 3 3	73.	Amount
C. 2000	7/1/200	The state of the s		6 h	Freland		
		GIEW Travel		ickman / //</td <td>YOUNG_</td> <td></td> <td></td>	YOUNG_		
1.UNITY	1,05AC	SGACTY MEETING		rman DSC41	CEVILLICIMS		
	100	PESFOSOTING STAY	ALJOY HOO	rman DG/16	75 B. Chine		
		WHEN CORING OUR	e en	ı Labor	·	***************************************	1
T.COAM	9:00 AM	Rost STA	11.21		Chief & 3 Men (6	2 Hours @ 2005.	4
		Right	// / RIG		Chief & Men	- 41	
	<u> </u>	RIHWISONOINE	- 1	Travel Time		Hours @ <u>1305</u>	1500
		1.6 900 Mark 71		***************************************	uipment	Hours @	
		ending 1.6 2160	REconstaction	Circ Tar	nk	Hours @	
	<u> </u>	40.50 BBIS R/R	SWOD Push	MILE	RIELER D	A Hours @ 3000	300°C
9008M	In OnAr	Released PKr Ri	H RELEASING	hensing A	WEATON OI	1 460	7
	-	RBA DOOH W/PK13	PHO			Hours @	6/1/
10:00 AM	41 min DA	Big Repair		Fishing Tools		Trip @	
J.OAPM.	ī			l Fuel		Sallons @ 1.5°C/Gal.	750
3. CAPTO	3.3007			Subsistance	<u> </u>	Men @ 100 F Man	500
<u></u>	<u> </u>	Plug B. H TO 385		Uring			
\$ 5.30pm	7.00PM	R/4 SWGH 5741	TING Traile	r House			
			5 BUILD MYT	~~~			
		Recarred 298	200				
				- 1.9 Dies & Slips		@/Day	ļ
		ending Fit Isan		Accumulator		Day @	
21.4.0		WELLIN.	Tong Dies	Foster BJ	Peck		
1. EODA	7.30Pri	Well IN. Crew Travel	Slips	2%	2% 3%		
			ln	serts	B or C		640
			Oit Sa	ver Rubbers	<u> </u>		14 00
			Swab	1 1/4 1 1/2" (23/8 Send	> ~ 60	
	1		- Coho	2 1/16"	2 3/8 Sand 2 7/8 Wire 3 1/2 Rubber	@ Fach	54,00
	1		Pipe V	fiper Rubber 9"	12" 17"	/Each	
		****	Rod W	iper Rubber	Pigteil Disc	Ø /Fach	
			MISCE CHAR	LLANEOUS () / /.		10,00	, co
			CHAR	- 110	We Chalge	755	504
				PIRED	ore :	FOR	30,00

j						j,	
PROVED BY:	<u> </u>		~~~~	***************************************	**************************************	Sales Tax	454

Nº 9846

Temples Oil Well Service, Inc.

P.O. Box 765 • Vernal, Utah 84078 (435) 789-2760 • Fax: (435) 781-1540 TERMS: NET 30 DA S 1½ % PER MONTH V LL BE CHARGED AFTER 3 DAYS

Ta 50/01	ris ex	(PIDITATION)		Rig	No. 2	Date: /C	-7-03			
Address:			********	Le	886 S T C	77E	Well No. 2/-/	9 32	-	b
				Cu	atomer Ord	ler No.				
Pull O	eloH to tu				Par	In Hole				L
Joints	Feet	Description		Ma	lerial	Description	ń	Joints	e	ed
grace	BOPS	160,00		Polish	Rod					I
	TIW	3300		 						
DOWELL	Schlynbe	rger 3157,3		Poney					-	_
Dalbo	KELLATE	3496.18		 	lods lods					+
	$Rg_{}$	3738		1	lods		·		▐	1
	Daily	COST 8246.31		Pu	mps					工
DESCRIPTION.	OF WORK PERI	ORMED:			Pusher Re	quested			m	ount
Seadur Hoir	φ. 				Operator	Dave Irelan	J	12 Hours		
		TABLE		<u> </u>	1	Bill Young		17		
		crew Travel	<i>/</i> 3 .	<u> </u>	1	•		12 Hours		+-
7:00 Am	7:05 pm	SafeTy Meeting: Bu	<u> </u>	<u> </u>	i	oscar willie		10 Hours		-
***************************************		KEEP PLESSURES UP ATA	V.	TIM	OGorman ,	Dollas Rich	ins.	Hours		4
7:05 AM	8:00AM	POOH W/ 278 TB9	~		Extra Labo	or ·	*			<u></u>
		RIU SCHIUMbeger	•	70	Rig Hours	Unit, Crew Chief & 3	Men // Hor	<u> 206.</u>	\supset	de a
E-11-11-11-11-11-11-11-11-11-11-11-11-11		RUN GEM BOND 109			Crew Tray	al Tima		-0130°C		,00
		•		21						1
**************************************		Bond 109 sHowed		va.	Cleas	Circ Equipment		ire @	╂	+-
		CEMENT RID 1099EIS			Class.	Girg Tank		n @		1
11:30 Am	12:30An	RIHWAY TRYTC	4	2/6	Pusher_	VIKE BIEWEL	DG/ Hot	in @ 300 €	9	sac
12:30PM	LOOPM	TESTER 7" (59 F PIPE	Φ.	Ron	SDeptir com	- PUSHER TRA	ice! 1 Ho	10 0 40. C	10	co
		TO 3,000 Held FOC 1						· · ·		1.
		Held OK" RIEd Pressu		1	1		60 Gallons @	150 Kal	7/	नुटर
i:00Pm	5:30Pm	RIU SWADES TO 5		1	1		5	100 PO Men		Œ
JUNEEL L				;	Wet String					f-
	None	iti di di di	-	ŧ			Men @	/Man		
						***************************************	/ubing	/ <u>Pey</u>	-	
		SW9600 CSG dow	4	, 7C	MYT Stip 1	ypo Elevators		/Day		<u> </u>
		3,800			2 1/16 - 1.5	Dises & Slips		/Day		
5.30pm	6:00Am	PUMPER 20 BBIS 4	2	2_	BOP's Acc	umulator	0	wy @		
		KCh down csg SH			Tong Dies	Fostor BJ Pack	e e	/Each		
		Well in.			Skips	-				 -
G.COPM	C . 200 w				Inserte	2% 2% 3% 9 or C		/Each		<u></u>
w.copy	W. SOPP	CIEW Travel	\dashv	······································	Oil Saver F	lubbers	<u>-5</u> 2	/C-/ CO /C-/ (Each	78	100
			\dashv		Swab	1 1/4 _2 3/8	Sand			
······································			_	·	Cups	1 1/2" (27/B) 2 1/16" (31/2"	Ridber 4 ex	27. Keech	0	B.CC
·					Pipe Wiper	Rubber 9" 12" 1:	-	/Each		
										
		•,			Hod Wiper MISCELLA	NEOUS	Diec @	/Esch		-
~~~~~ <u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>				***************************************	CHARGES	PHONE	charge	25,00	<u>Zs</u>	ce
		<u> </u>	7	~~~				<u>,                                      </u>		<u> </u>
		>	$\dashv$		1					
	***************************************	-	$\dashv$				* .			
			_		<u> </u>					<b></b>
					ļ			Sales Tax	7	8
approved by:							TOTAL ROJ	Gales lax	1.,	
		,	_		J		TOTAL SW	76.0		<u> </u>
			- 1							4

Nº 9845

# Temples Oil Well Service, Inc.

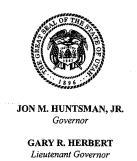
P.O. Box 765 • Vernal, Utah 84078 (435) 789-2760 • Fax: (435) 781-1540 TERMS: NET 30 DAYS 1½ % PER MONTH WILL. E CHARGED AFTER SO A

· Solal	vis ex	DIOCATION		lig No.	Date:	10-6-0 Well No. 2		<del>,  </del>		k l	
iddress:											
				Customer On	jer No. n In Hole					<b>h</b> 1	
Pul Q	ut of Hole				<del></del>	inting	Joints	T	-	-	
Igints	Feet	Description		laterial	Descr	ription	000.13			<b>+</b> 1	
	J-west	2415.00 Trucki	4 Polis	h Rod '				+		<b> </b>	
	graco	160.00 BOPS 570.00 HOTSHOT	Pone	y flod			***				
(Jhite	HOISE	3032.00 TEMPLES		Rods							
	77.3			Rode	<u> </u>			+		+1	
	DailYCO	ST 6177.00		Rods -	<u> </u>		<del>-  </del>	-		<b> </b>	
				Pumps							
DESCRIPTION	OF WORK PERI	ORMED:		Pugher R		· · · · · · · · · · · · · · · · · · ·	11/2 40	+1			
	,				Dave Fre	•				-	
5'mar	9:00AC	CIEW Travel		Demickm	m Bill YOUA	<i>49</i>	11/2 Ho	-		<b>-</b> `	
0:000	11 mar	MIRU		Floorman	OSCORWIT	4. ams	11/2110		-	<b> -</b>	
TI COUNT	100000	NICHEORS RICHE	-loor	Floorman	Dallas Ris	chins_	11/2110	ura i	-	┢!	
U. CODEC	BURGE	610 FOR 278 P/U	129	Extra La	50f		·			<u>_                                    </u>	
16,00P	19.00PF	7	4034			3 Man 7	Hours e 201	<u> </u>	12	di	
		INIS TAGGEL TO		2 Crew Tri		41/2	Hours @ 13C		35	a	
	<b></b>	Igid ISNT RIUS	NAK.	1			Hours @				
4,00P	14:30 Pr	GIEW Travel		Cinas	Circ Equipment		Hours @				
		,		Cleas	Circ Tank	- N->	Hours @ 300	co !		Œ	
					NIKE BIC					1	
				Bepth-G	mapusher I	racket 372	Hours @ 40	-/	12		
				Rod Fis	ning Tools	,	Trip @	<u>-</u>		-	
				Diesel F	u <del>si</del> .	Salio	NS (0)/(0	abl.		Œ	
***************************************	,			Crew S	ipajatanca ,	5\	m @ 1000	Man S		-	
***************************************	-			West Sta	ng		ten @/	Man			
***************************************				Trailer	1			/Day			
								/Day			
					p Type Elevators	,		/Day			
				2 1/15	1.9 Dies & Slipe	***************************************		1.00			
·				BOP's	konumulator		Day <u>@</u>			-	
				Dies	Fostor SJ Peck	-		/Each	-		
				Slips	2% 2% ents	3%		Ench	Ŀ		
								Each			
					er Rubbers	Sand			П		
				Swab Cups	1 1/4 2 8/8 1 1/2" 2 7/8 2 1/16" 3 1/2"	Wire Rubber	· @/	Each			
	_	·			,			Æsch.			
						1		/Each	П		
· · · · · · · · · · · · · · · · · · ·				har-	iper Rubber Pigtail	Disc	· · · · · · · · · · · · · · · · · · ·			$\alpha$	
				CHAR		charge	25,0		थ्ड		
					·		,		┡┤		
						,				;   .	
							Sale	s Tax	П		
APPROVED	RY:		37			TOTAL '		00	H		
MLEUGAER	mr 4 5						2 <u> </u>			( (	
								ı		į	

10/12/200	33 20:1:	8 14352	591160		HOLIDAY IN	N EXPRESS	p colineka horre (2) cecimen	AGE 06
	1 6	set c	himay					
		Y-71	hunang		SHATE	21-19	32-14	Δ
TO DATE	Iola	10/7	10/8	10/9				
				Processor and American Section Section 2015	1011	o loli	10/12	10/13
ا ا	30:32	3496	3402	3997	245	4 297	0 3786	To an analysis of the second s
uest Track	415	The state of the s		e de la companya de l			910/66	TO SEE THE PROPERTY OF THE
ailehorseigh	570		Angel and a control occupacy					aora (managana)
66-BOPS/71	160	18.3	185	185	185	185	185	and the second s
Anks-		" Transa da sana		120	40	40	40	
oilet-		and a Marin Congress	55	120	20	130	20	e de Santa de Carrier de Santa
Alumbaga		31,57	5403	9143	The state of the same	107/7	5759	en e
	1300.0	1	ar Gorge II de en oarsprong op journe	er entert alle toe			and applications of the state o	Care I and Care Care Care Care Care Care Care Care
4K=12		7	1720	870	1700	and the state of t		
ulbo-KCU	e de la companya de l	1400	reenses=ouzeneus la‱ga	- complexity				
rrison		Acceptance and	975	-1 0.80 B.G				garage and a second
Sultuins			4400	e de de la participa de la constantina	1200	The second section of the second section of the second section of the second section of the second section sec	1200	
			ere arme or early	and the second	The second of the second second		e reference an along especially and a second	tyrest gradagen beggin blade dag a
			e e e e e e e e e e e e e e e e e e e	at the second				The first and the first section of the section of t
			er Alexandra general y grandra	Stratusty and Spage	Managara di Sasa	and the state of t	Season sections of the second	
			-transmiss statement	i sa				
Carlos of passed of	States and States			or trape and programming and pro-		leto turi ka menerakana	Section 1 Sectio	Sugar Service
ibing Bestrad						er steanig a cast styp		
	177	8246 1	5/4/A	11.1.77	5000			of the delication and the second seco
	\$2 Lot 522 black \$3	27423 L	경우에 전상하면서 반기가 되었다.	14330 57393	5098 12191	14882		e de la companya de
			`~~?	- 1-212	62491	77373	78363	

# Schlumberger

					<b>3</b> 61		inei.Aei.	
Company:	SOLARIS	EXPLOR	ATIO	N			:	
Well: Field: County:	STATE 2 WILDCA GRAND	1-19 #32-1 Г	16D	State	UTA	Н		
S MS	PLATFOR	M EXPRES	S - CI	LIENT :	SCALE	S		
i	דרוורו ב רו	ETECTOR [	שראוכ	HTV				
WILDCAT SHL: 122' FSL & 994' FEL STATE 21-19 #32-16D SOLARIS EXPLORATION LOCATION	INIPLE DI	EIECIUNI	באושע	OI I T				
WILDCAT SHL: 122' FSL & 994' F STATE 21-19 #32-16D SOLARIS EXPLORATIC	COMPEN	SATED NEU	JTRC	N				
8 8 E	SHI : 122' FSI	& 994' FEL SW SI	= SF		Elev.:	K.B.	4830 ft	
19 t		Q 00-7 1 LL 011 0				G.L.	4818 ft	
ZZ F						D.F.	4829 ft	
WILDCAT SHL: 122' F STATE 21-1 SOLARIS E LOCATION								
의 전 보 분	Permanent Da		UND LE		Elev.:	4818	ft	
	Log Measured	From: KELI	_Y BUSI	HING	12.0 ft	above	e Perm. Datum	
on:	Drilling Measur	red From: KELI	Y BUSH	HING				
Field: Location: Well: Company:		API Serial No. Section Township Range 43-019-31399 32 21S 19E						
ogging Date		26-Sep-2003						
lun Number		ONE	~~~~~~~~~~					
lepth Driller		4088 ft						
chlumberger Dept		4088 ft						
ottom Log Interval	<u> </u>	4086 ft 508 ft						
op Log Interval	@ Dooth	9.625 in		509 ft				
asing Schlumberg		508 ft	@	303 10			@	
it Size	łei	8.750 in			***************************************	····		
ype Fluid In Hole		KCL			***************************************	/		
	Viscosity	9.5 lbm/gal	37 s			•		
	PH	21 cm3	9					
Source Of Sample	AND THE RESIDENCE OF THE PARTY	CALCULATED	L					
M @ Measured Te	ARABAMA MARKA AND AND AND AND AND AND AND AND AND AN	0.800 ohm.m	@	70 degF	***************************************		@	
MF @ Measured		1.200 ohm.m	@	70 degF		***************************************	@	
MC @ Measured	Temperature	0.600 ohm.m	@	70 degF			@	
ource RMF	RMC	CALCULATED	CALCL	LATED				
	RMF @ MRT	0.496 @ 117	0.744	@ 117	@	)	@	
laximum Recorded		117 degF						
irculation Stopped		26-Sep-2003		0:30				
ogger On Bottom	Time	26-Sep-2003		8:45	····			
Init Number	Location		SPRING					
ecorded By		S. WHITTAKER,					**************************************	
/itnessed By		K.BYTH, B. BLO	CKMAN					



# State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

**Division of Oil Gas and Mining** 

JOHN R. BAZA
Division Director

September 29, 2008

CERTIFIED MAIL NO.: 7004 2510 0004 1824 6343

Mr. Walter Lowry North American Exploration, LLC 110 16th Street, STE# 1220 Denver, CO 80202

ZIS 19E 32

Re: State 21-19 (32-16D) API 43-019-31399; State MSC 16-1 API 43-019-31401;

Cactus Rose MSC 2-1 API 43-019-31402; State MSC 35-1 API 43-019-31404;

N Thompson 2-1 API 43-019-31412

Extended Shut-in and Temporarily Abandoned Requirements for Wells on Fee or State Leases

Dear Mr. Lowry:

North American Exploration, LLC has five (5) Mineral Lease Wells (see Attachment A) that are currently in non-compliance for extended shut-in and temporary abandonment (SI/TA) status. It is understood that a couple of these wells have been or will be plugged shortly. Wells SI/TA beyond twelve (12) consecutive months require the filing of a Sundry Notice in accordance with R649-3-36-1 for Utah Division of Oil, Gas & Mining ("Division") approval. Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (R649-3-36-1.3.3).

For extended SI/TA consideration the operator shall provide the Division with the following:

- 1. Reasons for SI/TA of the well (R649-3-36-1.1).
- 2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and



Page 2

September 29, 2008

Mr. Lowry

3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3)

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).

- 1. Wellbore diagram, and
- 2. Copy of recent casing pressure test, and
- 3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
- 4. Fluid level in the wellbore, and
- 5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions will be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,

Dustin K. Doucet

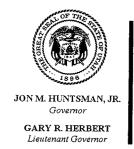
Petroleum Engineer

JP/js Enclosure

cc: Jim Davis, SITLA Compliance File Well File

## Attachment A

	Well Name	API	Lease Type	Years Inactive
1	STATE 21-19 (32-16D)	43-019-31399	ML-47441	4 Years 11 Months
2	STATE MSC 16-1	43-019-31401	ML-46760	3 Years 9 Months
3	CACTUS ROSE MSC 2-1	43-019-31402	ML-47721	2 Years 9 Months
4	STATE MSC 35-1	43-019-31404	ML-47576	3 Years 5 Months
5	N THOMPSON 2-1	43-019-31412	ML-46759	3 Years 10 Months



## State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA Division Director

February 23, 2009

CERTIFIED MAIL NO.: 7005 0390 0000 7507 4238

Mr. Walter Lowry North American Exploration, LLC 110 16th Street, STE# 1220 Denver, CO 80202

21S 19E

UTAH

Subject: SECOND NOTICE: Extended Shut-in and Temporarily Abandoned Requirements for

Wells on Fee or State Leases

State 21-19 (32-16D) API 43-019-31399; State MSC 16-1 API 43-019-31401; Cactus Rose MSC 2-1 API 43-019-31402; State MSC 35-1 API 43-019-31404;

N Thompson 2-1 API 43-019-31412

Dear Mr. Lowry:

North American Exploration, LLC ("NAE") has five (5) Mineral Lease Wells (see Attachment A) that are currently in non-compliance for extended shut-in and temporary abandonment (SI/TA) status. Wells SI/TA beyond twelve (12) consecutive months require the filing of a Sundry Notice in accordance with R649-3-36-1 for Utah Division of Oil, Gas & Mining ("Division") approval. Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (R649-3-36-1.3.3).

Based on a sundry dated February 13, 2008 it was understood by the Division that NAE would be "assuming all plugging and reclamation liabilities" for the above listed wells. The N THOMPSON 2-1 well had a sundry dated July 18, 2008 with intent to plug and abandon (P&A). Condition of approval to P&A was sent to NAE July 22, 2008. The STATE 21-19 (32-16D) also had a sundry dated August 22, 2008 with intent to P&A. Condition of approval to plug this well was sent September 3, 2008. A notice of SI/TA status for wells listed (Attachment A) was sent via certified mail September 29, 2008. To date the Division has no record of the proposed work being done on these wells, nor received any such correspondence addressing the issue. Please address this matter promptly.

Page 2 North American Exploration, LLC February 23, 2009

For extended SI/TA consideration the operator shall provide the Division with the following:

- 1. Reasons for SI/TA of the well (R649-3-36-1.1).
- 2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
- 3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3)

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).

- 1. Wellbore diagram, and
- 2. Copy of recent casing pressure test, and
- 3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
- 4. Fluid level in the wellbore, and
- 5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, a notice of violation will be issued. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,

Dustin K. Doucet Petroleum Engineer

DKD/JP/js Enclosure cc: Jim Davis, SITLA Compliance File

Well File

N:\O&G Reviewed Docs\ChronFile\PetroleumEngineer\SITA

## Attachment A

	Well Name	API	Lease Type	Years Inactive
1	STATE 21-19 (32-16D)	43-019-31399	ML-47441	5 Years 3 Months
2	STATE MSC 16-1	43-019-31401	ML-46760	4 Years 2 Months
3	CACTUS ROSE MSC 2-1	43-019-31402	ML-47721	3 Years 2 Months
4	STATE MSC 35-1	43-019-31404	ML-47576	3 Years 10 Months
5	N THOMPSON 2-1	43-019-31412	ML-46759	4 Years 3 Months

		STATE OF UTAH DEPARTMENT OF NATURAL RESOUR	DOES		FORM 9
	1	DIVISION OF OIL, GAS AND MI			ASE DESIGNATION AND SERIAL NUMBER: 46760
	SUNDRY	NOTICES AND REPORTS	S ON WELLS	6. IF I	NDIAN, ALLOTTEE OR TRIBE NAME:
Do r	ot use this form for proposals to drill n drill horizontal la	ew wells, significantly deepen existing wells below cur terals. Use APPLICATION FOR PERMIT TO DRILL f	rrent bottom-hole depth, reenter plugged wells, or t form for such proposals.	7. UN	IT or CA AGREEMENT NAME:
	PE OF WELL OIL WELL	GAS WELL 🗹 OTHER _		8. WE	aris State 21-16-32-16D
	ME OF OPERATOR: E LLC				NUMBER: )1931399
	DRESS OF OPERATOR: 00 Imperial Valley Dr., St _{iCITY}	, Houston STATE TX ZIP	, 77060 PHONE NUMBER: (281) 931-8933		ELD AND POOL, OR WILDCAT:
	CATION OF WELL OTAGES AT SURFACE: 1270'-	NL & 800' FEL 0172 FS	SL 0994 FEI	COUN	πγ: <b>Grand</b>
	R/QTR, SECTION, TOWNSHIP, RANG	* * * * * * * * * * * * * * * * * * *	19E	STATE	E: UTAH
11.	CHECK APPE	ROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REF	ORT. C	OR OTHER DATA
	YPE OF SUBMISSION		TYPE OF ACTION		
$\overline{\Box}$	NOTICE OF INTENT	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION
لــا	NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE TREAT		SIDETRACK TO REPAIR WELL
	Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION		TEMPORARILY ABANDON
		CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE		TUBING REPAIR
		CHANGE TUBING	PLUG AND ABANDON		VENT OR FLARE
$\checkmark$	SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK		WATER DISPOSAL
	(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	. [	WATER SHUT-OFF
	Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE		OTHER:
	9/2/2009	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	ĎΝ	
12.	DESCRIBE PROPOSED OR CC	MPLETED OPERATIONS. Clearly show all p	pertinent details including dates, depths, vol	umes, etc.	
* S	EE ATTACHED P&A R	EPORT			
				j.	RECEIVED
				,	MAR 2 5 2009
				חת	
				<i>-</i>	% OF OIL, GAS & MINING

(This space for State use only)

NAME (PLEASE PRINT)

## NORTH AMERICAN EXPLORATION Daily Operations Report

Sup	Name ervisor Cost	SOLARIS	STATE 21	(-19(32-18D		ny Operations	reput			Date DFS DOL MD	9/2/2	800
Cum	Cost	*****	\$10,800.0	<u> </u>		0				PBTD		
Сшт	ent Stat	us	RIG ON	LOCATION		Genera	I 					
24 H	r Summ	ery	MIRU, TA	ALLY PU TE	BG, TAG U	IP @ 3008'						
24 H	r Forece	ast	PULL G	RBP								
Com	ments			+		_		<u> </u>	-			
					τ	īme Sumn						
Step	Depth	From	То	Duration	MIRU TALL	Y PU WORK ST	Operation RING	n		Phase	Class	OpCod
	į			0.00	TAG UP 30	08	=					
				9.00	PU TEG OF	F CRU 18-11						
-					SEND ALL NEW MEXIC JIMMY CAV	TBG TO CAVE I CO PHONE # 60 /E	ENTERPRISE 05-327-3401,	S FARMINGTO CONTACT PER	SON_			
				0.00								
				0.00								
		ļ. ———		3								
				0.00								
				0.00								
-				•							_	
				e ≱ 0.00								
				0.00								
$\vdash$				8 1								
				0.00								
				0.00								
		Total T	ime Summan	0.00				=				
				<u> </u>		Daily Cost	he.					
C/O x	_Class	Code/Sub	WELL SITE	Details SUPERVISION		Qty \$1.00	Cost/Qty 120	Cost	UP FRONT	Vend	or	
_			RIG COST WATER			1	\$8,000.0	CE \$6,000,00	PRO	_		
X			TBO RENT					× \$0.00	CASCADE HITECH			
×				UT OFF WELL	HEAD		<u> </u>	\$0.00 \$0.00	HALLIBURTO CECIL GUST	ON		
x			TRUCKING	KIG MOVE		1	\$3,600.0	0 \$3,500.00 2 \$0.00	LINDSEY TRI	CKING		
×						Ţ		\$0.00				
<u>×</u> _						<u> </u>		26 2 \$0.00 ≥ \$0.00				
ш							L	\$0.00				_
						$\pm -$	<del></del>	4 \$0.00 30.00				
								\$0.00				
╚	_		$\vdash$			<del> </del>	<del>                                     </del>	\$0.00				
								\$0.00				
$\vdash$								\$0.00 \$0.00				
						Т	otal Dally Co	\$10,800,00				
						Remarks						
											_	
—												
$\vdash$												
<del></del>	-					-						
												-
$\vdash$												
-												
_												
					-				-		_	

				Dally	Operations	Report							
Well Name	SOLARIS	STATE 21-	19(32-16D)						Date	_	9/3/2008	1	
Supervisor									DFS		2		
Daily Cost	1	\$11,100.00	7						DOL MD	-	2	1	
Cum Cost		\$21,900.00	]						PBTD			]	
					General								
Current Statu	ua	WELL SH	UT IN REAL	Y FOR P	LUGGING							Form Notes: I	n the General Section keep test
						_						"More detail ca	our text to 256 characters or less. In be provided in the Time
24 Hr Summ	ary	TOOH W/	TBG, PUM	U BAKER	MODEL G F	RETRIEVING	HEAD, TI	UNABLE	TO LAT	CH, CII	₹C	Summary sec	tion. Also note that the Comment displayed in a printed report from
		WAELL, WA	URK TOOLS	s, 100/11	ינוטואו טואטי	EL P RETRI	VING HEAL	TIH UNA	SLE 10	LAICH		Open Wells. L	Jse the codes
24 Hr Foreca	ıst	PLUG WE	ill.									]	
												J	
Comments									lacksquare			[	
			1 1	771	me Summ	<u> </u>	<u> </u>				Ь	l	
Step Depth	From	i To	Duration		me Summ	Operation			Interes	[6]	10-0-J-		Phase Code List
Oteb Debut	FIUII	<del>  ''</del>	5.33	TOOH W/TB	ğ				Phase	Cities	OpCode	CODE	FRAME Site Preparation
		1				ING HEAD, TIL TLATCH UP, C		/ FRESH	-			MIRU	Mobilize and Move in Rig up
	1			WATER, WO	RK TOOLS UN	ABLE TO LAT	CH UP		1			COND1	Conductor Section 1
	İ		I I	DUMU MODE	L PRETRIEV	ING HEAD, TH	1					BURFAC	Burface Section Intermediate Section 1
			0.00	NATER TO	LEAN UP WE	T LATCH UP, C LL BORE	RE WELL W	/ FRESH	1			INTRM2	Intermediate Section 2
		1		TOOH W/ TO	IOLS ND TO 2970' 8!	DFN			}	1		PROD1	Production Section 1
	i											PROD2	Production Section 2 Demobilize & Move Out Rig
	1	1	0.00						1			COMPZN	All Completion Zones
			l F						1			TIEBAK	Tie-Back of well head
									1			BURPRD	Surface / Production Work Site Clean-up
			0.00						•				
		<u> </u>	]						1			00==	OpCode List
			-									CORING	DESCRIPT
	1		0.00						1	i l		CASING	CASING
				-					<u>L</u>			CEMENT	CEMENTING
			-						-			MOVE	MOVING
			0.00						1			DRILL D8T	DRILLING DRILL STEM TESTING
			a - 10						<u> </u>			FISH	FIBHING / MILLING
			l F									EVALFM	EVALUATE FORMATION
		١.	0.00						1			EVALWB	EVALUATE WELLBORE
		,										PERFOP	PERFORATING RIG MAINTENANCE
									1			WAITON	WAITING ON
	ļ		0.00						1			WELCTL	WELL CONTROL
									1	Ш		STIMOP FLOWT	STIMULATION FLOW TEST
			l 🐠						1			WELLPR	WELLBORE PREPARATION
			0.00						1	i l		RPEQPT	RUN/PULL EQUIPMENT
	<del> </del>	<b></b>	- F						<b>├</b> ─			RPCOMP	RUN/PULL COMPLETION
									<b>1</b> i			CBGRCY	CASING/SLOT RECOVERY BOP, WHEAD, XMAB TREE
			0.00			-	-		1			OTHER	OPS NOT DEFINED
	Total 1	Time Summary	0.00						Ц			SURFEQ	SURFACE EQUIPMENT
-													
C/O   Class/	/Code/Sub		Detalis		Dally Cost Qty	Cost/City	Cost		Vend	ior	_		
x	OGG CGB	WELL SITE S	SUPERVISION		\$1.00	1200	\$1,200.00	UP FRONT	Activ				
		RIG COST WATER			1	\$8,000.00 \$600.00	\$600.00	KSUE					
x		TEG RENT					\$0.00	HITECH HALLIBURT	ON				
x		WELDER CU DOWN HOLE	TOOLS	HEAD		\$3,300,00	\$0.00	CECIL GUST	ON				
×		DOWNIOL	10019			\$3,300,00	\$0.00	PANCK	_				
x						-	\$0.00				-		
=							\$0.00 \$0.00						
							\$0.00						
							\$0.00	-					
							\$0.00 \$0.00						
							\$0.00						
							\$0.00 \$0.00						
					т	otal Daily Cost	\$11,100.00						
					Remarks	ı							
-								_					
<b>—</b>					-								
											-		

NORTH AMERICAN EXPLORATION **Daily Operations Report** Well Name SOLARIS STATE 21-18(32-16D) Date DFS DOL MD PBTD 9/4/2008 Supervisor Daily Cost Cum Cost \$37,600.00 \$58,900,00 General Form Notes: In the General Section keep test short. Limit your toxt to 286 characters or less. More detail can be provided in the Time Summary section. Also note that the Comment box will not be displayed in a printed report from Open Wolfs. Use the codes Current Status well plugged MIX AND PUMP 3 PLUGS W/ GELL SPACERS BETWEEN PLUGS, 24 Hr Summarv RIG DOWN MOVE TO THE MSC 16-1 24 Hr Forecast Comments Time Summary Phase Code List Step Depth From To Phase Class OpCode Duration Operation CODE FRA3E AIRU HWS IOLD SAFETY MEETING, MARK JONES UTAH STATE REP IN LCATION SITEP O.00 ON LOATION
PUMP 408 BIS SPACER,
PUMP 408 BIS SPACER,
PUMP 408 BIS SPACER,
PUMP 408 BIS SPACER,
WAT 33 HIS TAG UP 2519

16.83 CEMENT YIELD 1.18 FLUSH W/16 BIS WATER
WAT 33 HIS TAG UP 2519

O.00 ROLL HOLE W/15 33 GELL PUMPED 110 BIS BIS
TOOH TO 687

PUMP 31 8X3 CEMENT YELD 1.18 FLUSH W/2 BIS WATER
TOOH WAT 2 HES TAG CEMENT 640

TOOH TO 137

PUMP 23 SX3 CEMENT 120 TO SURFACE
16.6 SYELD 1.18 27 CUFF
ND 800 PLUSH WELL HEAD
WELL PLUGGED

O.00

O.00 0,000 Mobilize and Move in Rig up CONDI **Surface Section** INTRMI intermediate Section 1 INTRM2 Intermediate Section 2 PROD1 Production Section 1 PROD2 Production Section 2 Demobilize & Move Out Rig COMPZN All Completion Zones Tie-Back of well head SURPRD Surface / Production Work BITEC Site Clean-up OpCode List CODE DESCRIPT CORING CORING 0.00 CASING CEMENT CEMENTING MOVE MOVING DRILLING 0.00 DST DRILL STEM TESTING FIRH FIBHING / MILLING EVALUATE FORMATION EVALFM 0.00 EVALUATE WELLBORE PERFOR PERFORATING RIGMNT RIG MAINTENANCE WAITON WAITING ON ...
WELL CONTROL 0.00 STIMOP STIMULATION FLOWT FLOW TEST WELLBORE PREPARATION WELLPR 0.00 RUN/PULL EQUIPMENT RUNPULL COMPLETION RPCOMP CBGRCY CABING/BLOT RECOVERY BOP, WHEAD, XMAS TREE 0.00 OTHER OPS NOT DEFINED
BURFACE EQUIPMENT Total Time Summary 0.00 Details
WELL SITE SUPERVISION
RIG COST
WATER
TRO Dally Costs C/O Class/Code/Sub Vendor WELDER CUT OFF WELL HEAD DOWN HOLE TOOLS \$3,300,00 \$3,300 CO BAKER Remarks

### Solaris State 21-19 #32-16D Well Construction Diagram for P&A Approval

Well: Solaris State 21-19 #32-16D
Well Type: Directional
API Number: 43-019-31399
Surface Location: 122' FSL & 994' FEL
Bottom Hole Location: 660' FSL & 691' FWL
Total Depth: 4088'
Proposed P&A Date: 03 September 2008
Author-Version-Date: W, Lowry - Version 1 - 30 August 2008



S-T-R: Sec 32-T21S-R19E
Field: Wildcat
Lease Number ML-47441
Elevation (ft): 4,818'
KB to GL (ft): 12'
RKB (ft): 4,830'
Objectives: P&A well & reclaim surface

Formation	Casing and	Depth (ft)	Hole	Perforations
Tops	Cement	11" 3M Wellhead	Size	renorations
		ancontaine to a contrain		
Mancos Shale - Surface	Cement Surface Casing with 255 sx Type 5 cement + 2% CaCl2 + 0.25 #/sx Flocele mixed at 15.6 ppg with a yield of 1.18 cf/sx. Pump 80% excess over gauge hole.		12-1/4" Hole	
<del></del>	Surface: 9 5/8" 36# J55 STC (0 - 509')		<u> </u>	
			bridge plug se 2600'-3850' ov Jurassic inter surface casing surface plug. yield of 1.15 c	A <u>Procedure</u> : Remove Baker Model Get at 3004'. Set 3 P&A plugs. 1st Plug f/ rer existing open perfs and top of the val. 2nd Plug f/ 450'-550' across the g shoe. 3rd Plug f/ 3' BGL to 100' as a All plugs will be mixed at 15.6 ppg with a f/sx. Cut off casing 3' BGL. Weld on dry Pull cellar ring. Fill cellar. Reclaim
Ferron Sandstone @ 1629'	7" Production Casing cemented with 325 sx lead cement 65/35 Class "G" Lite salt		/	
Juana Lopez @ 1951'	saturated cement + 0.25 #/sx Flocele mixed at 13.0 ppg with yield of 2.08 cf/sx followed by 720 sx tail cement of 50/50 POZ salt saturated + 2% gel + 0.25 #/sx Flocele + 2% fluid loss additive + 0.2% dispersant mixed at 15.1 ppg with a yield of 1.98 cf/sx.		8-3/4" Hole	DIRECTIONAL INFORMATION (SEE ATTACHED SURVEY LISTING): The well was directionally drilled pursuant to the attached survey listing with a KOP at approximately 2000', a BUR of 1.5°/100', a terminal inclination of ~ 12°, and an azimuth of 30°. The projected BHL has a vertical section of ~ 540' and coordinates of ~ 660' FSL and 691' FEL of
	CIRCULATED 40 BBLS OF GOOD CEMENT TO SURFACE.			Section 32-T21S-R19E Grand County, Utah.
Dakota Silt @ 2534'				
Dakota Sand @ 2695'			Existing Perfo	rations f/ 2714-2734'
Cedar Mountain @ 2740'	Remove Baker "G" Bridge Plug set @			1 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Morrison @ 2840' (Top of th	e Jurassic ) 3004' prior to setting cement plug.			
Salt Wash @ 2920'			Existing Perfo	rations f/ 3070-3090'
Tidwell @ 3240'			Existing Perfo	rations f/ 3598-3618'
Moab Tongue @ 3594'				
Entrada @ 3700'			Existing Perfo	rations f/ 3754-3775', 3775-3795'
	Cast iron bridge plug set @ 3850'.			
Top Salt @ 4070' Paradox Salt @ 4076'	Log from 4088' to 508' MD w/ Schlumberger Platform Express, Dipole Sonic, FMI & Microlog		Previously P&	<u>A'd Perforations</u> f/ 3864-3898', 3939-3955'
TD 4088' MD, 3999' TVD	Production Casing: 7" 23# J55 LTC (4088')	3999' TVD 4088' MD		
174-0		APPROVALS		
Prepared By:	03 September 2008		Арр	proved By:
Walter D. Lowry				

Name of the second

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: ML 46760
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL OIL WELL GAS WELL OTHER Dry Hole	8. WELL NAME and NUMBER: Solaris State 21-19 #32-16D
2. NAME OF OPERATOR:	9. API NUMBER: 4301931399
NAE, LLC  3. ADDRESS OF OPERATOR:  PHONE NUMBER: (ADDRESS OF OPERATOR)	10. FIELD AND POOL, OR WILDCAT:
110 16th Street, Suite 1220 CITY Denver STATE CO ZIP 80202 (303) 327-710	69 Wildcat
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1270' FNL & 800' FEL	COUNTY: <b>Grand</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 16 21S 20E	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, F	REPORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL
(Submit in Duplicate) ALTER CASING FRACTURE TREAT  Associated data work will start. CASING REPAIR  NEW CONSTRUCTION	TEMPORARILY ABANDON
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION  CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TO PREVIOUS PENNS OF ELUTION OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion:  COMMINGLE PRODUCING FORMATIONS  RECLAMATION OF WELL SITE	OTHER:
10/5/2008 CONVERT WELL TYPE RECOMPLETE - DIFFERENT FOR	MATION
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depth	s, volumes, etc.
On 09/04/2008, NAE commenced P&A operations on the subject well according to a NAE was required to make a diligent effort to retrieve a bridge plug set in the well, wh 3795'. NAE was unable to retrieve the bridge plug after making several good faith atternorm Dustin Doucet to leave the bridge plug in the well at 3004' as it was deemed suff 3070' to 3795'. (see the Actual P&A Construction Diagram attached to this Form 9).  NAE then commenced to set 3 P&A plugs in the 7" casing in the well pursuant to the Doucet. The 1st Plug consisted of 85 sx of Class G neat mixed at 15.6 ppg with a yie unrecoverable bridge plug) over existing open perfs and top of the Jurassic interval. A tagged and the top of the plug was found at 2518'. A 9.3 ppg gelled fluid was the base of Plug #2. NAE set a 2nd Plug of 31 sx of Class G neat mixed at 15.6 ppg with the surface casing shoe. After 2 hours the plug was tagged and the top was found at sx of Class G neat mixed at 15.6 ppg with a yield of 1.18 cf/sx was set f/ 3' BGL to 12 Subsequent to P&A procedures, NAE cut off the 7" casing 3' BGL. A dry hole markering was pulled, and the location was regraded to to its original contour pursuant to the Approval of the Permit to Drill. The location was reseeded and NAE concluded its reconstruction.	P&A plan approved by Dustin Doucet. ich isolated perforations from 3070' to empts to do so. NAE received approval icient to isolate the perforations from recommendations and approval of Dustin Id of 1.18 cf/sx f/ 2518'-3004' (top of the After waiting 3.5 hours the plug was en placed above Plug #1 and below the a yield of 1.18 cf/sx f/ 403'-569' across 403'. A 3rd and final surface plug of 23 6' as a surface plug.
NAME (PLEASE PRINT) Walter D. LOWRY TITLE Consultan	t
SIGNATURE DATE	
(This space for State use only)	

RECEIVED

MAY 19 2009

### Solaris State 21-19 #32-16D Actual P&A Construction Diagram

Well: Solaris State 21-19 #32-16D

Well Type: Directional
API Number: 43-019-31399
Surface Location: 122' FSL & 994' FEL
Bottom Hole Location: 660' FSL & 691' FWL

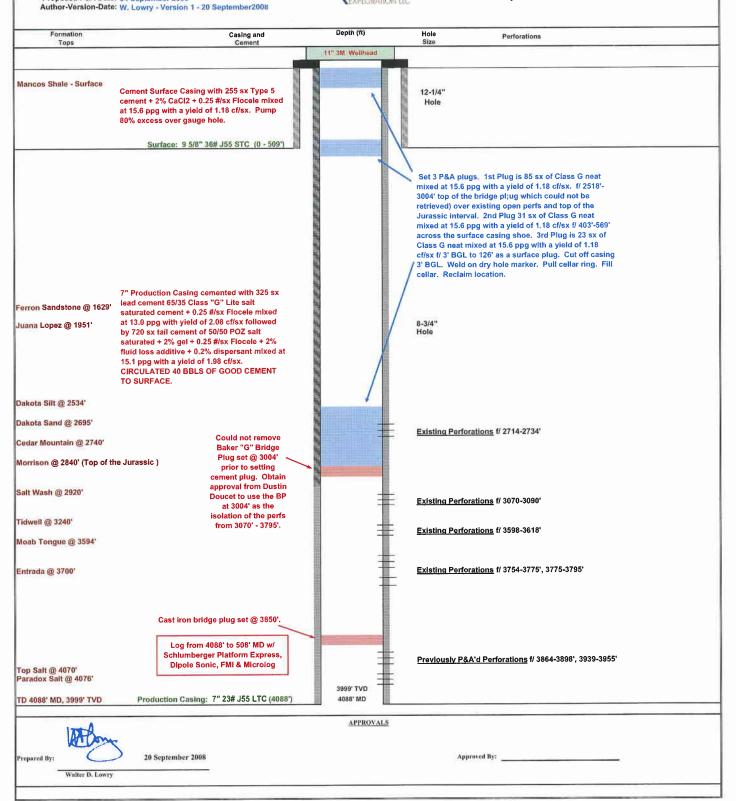
Total Depth: 4088*

Proposed P&A Date: 04 September 2008

SL & 994' FEL SL & 691' FWL AMERICAN S-T-R: Sec 32-T21S-R19E Field: Wildcat Lease Number ML-47441 Flevation (ff): 4.818'

Elevation (ft): 4,818' KB to GL (ft): 12' RKB (ft): 4,830'

Objectives: P&A well & reclaim surface



				Daily Operations Report			
Well Name Supervisor	SOLARIS	STATE 21	-19(32-16D		Date DFS DOL	9/2/20	008 1
Daily Cost Cum Cost	MD PBTD						
				General			
Current Stat	us	RIG ON L	OCATION				
		Lunu z	ULV DILTE	O. TAO UD @ 2000			
24 Hr Summ	ary	MIRU, 17	ALLY PU 1B	G, TAG UP @ 3008'		_	
24 Hr Forec	ast	PULL G F	RBP				
					-		
Comments		-	-		-		
				Time Summary			
Step Depth	From	To	Duration	Operation	Phase	Class	OpCode
				MIRU TALLY PU WORK STRING	1		
			0.00	TAG UP 3008'	-		/
			9199				(
				PU TBG OFF MSC STATE 16-1 PU TBG OFF FED 2-1	-		
			0.00	PU TBG OFF CRU 16-11			
			1100000	SEND ALL TBG TO CAVE ENTERPRISE'S FARMINGTON,	]	1	
				NEW MEXICO PHONE # 505-327-3401, CONTACT PERSON		-	-
				JIMMY CAVE	-	1	

0.00

0.00

Total Time Summary

Daily Operations Report

9/3/2008
2
2
I, CIRC
TCH
_

## **Time Summary**

Step	Depth	From	To	Duration	Operation	Phase	Class	OpCod
					TOOH W/TBG			
					PUMU MODEL G RETRIEVING HEAD, TIH			
				0.00	WORK TOOLS COULD NOT LATCH UP, CIRC WELL W/ FRESH			
					WATER, WORK TOOLS UNABLE TO LATCH UP			
					TOOH W/TBG			
_	-				PUMU MODEL P RETRIEVING HEAD, TIH			
					WORK TOOLS COULD NOT LATCH UP, CIRC WELL W/ FRESH	-		
				0.00	WATER TO CLEAN UP WELL BORE	-		
					TOOH W/ TOOLS	-		
				L'in	TIH OPEN END TO 2970' SDFN	-		
					THE OF ENERD TO 2070 GENT			
						-		
				0.00		-		
				0.00		-		
						-		
-	-					_		
						-		
				A MAN		-		
				8.00		-		
						-		
		_		No. of Concession, Name of Street, or other Persons, Name of Street, Name of S		_		
						_		
						_		
				0.00		_		
				A SULLIVE		4		l
				0.00				
				21113				
				0.00				
				I W LIGHT		_		
115		- 5						
				0.00		7		
						7		
-								
				VILL!		_		
				0:00		-		
				10.00		-		
				Literal Li		-		
-						-		
					1-1-1-1	-		
				0.00		-		
				0.00		-		
						-		
				ر حصالات ا				
		Total Ti	me Summar	y 0.00				

Daily Operations Report

Well N	Name	SOLARIS	STATE 21-	19(32-16D)	§ ()	Date		9/4/2008
Super						DFS		3
,					N.	DOL		3
Daily	Cost	E COLUMN	\$37,600,00	Ü		MD		
Cum (			\$58,900.00	1		PBTD		
				<u>.</u>	General			
Curre	nt Status	6	well plugge	ed				
	_		Trust AND	DI IMP A DI	HOO WEGEL CRACERS RETWEEN BLUCS			
24 Hr Summary MIX AND F		PUMP 3 PL	.UGS W/ GELL SPACERS BETWEEN PLUGS,					
24 Hr	Forecas	et .	RIG DOW	N MOVE T	O THE MSC 16-1			
	1 0.000							
Comn	nents							
					Time Summary			
Sten	Depth	From	То	Duration	Operation	Phase	Class	OpCode
2.00	P.M.		1		MIRU HWS			
				No. III La	HOLD SAFETY MEETING, MARK JONES UTAH STATE REP			

Step [	Depth	From	То	Duration	Operation	Phase	Class	OpCod
					MIRU HWS			
	- 1	- 1			HOLD SAFETY MEETING, MARK JONES UTAH STATE REP			
- 1				0.00	ON LCATION			ľ
- 1	- 1	1			PUMP 40 BBL SPACER,	7		
- 1					PUMP 85SX CEMENT PLUG FROM 3004' TO 2518' 100CU/FT			
-	_				15.6# CEMENT YIELD 1.18 FLUSH W/16 BBL WATER			
					WAIT 3.5 HRS TAG UP @ 2518'	-		
		1		10:00				
- 1	- 1			0.00	ROLL HOLE W/ 9.3# GELL PUMPED 110 BBLS			
	- 1				TOOH TO 569'	_		
					PUMP 31 SXS CEMENT PLUG FROM 569' TO 403'			
					37 CU/FT 15.6# CEMENT YEILD 1.18 FLUSH W/ 2 BBLS WATER			
- 1					TOOH WAIT 2 HRS TAG CEMENT @ 403'			
- 1				0.00	TOOH TO 126'			
					PUMP 23 SXS CEMENT 126' TO SURFACE			
					15.G # YEILD 1.18 27 CU/FT			
_				MELL W	ND BOP FLUSH WELL HEAD			
					WELL PLUGGED			
				0.00				
				0,00				
-							1	
							1	
			1	0.00				
	- 1			0.00				
- 1				E				
							1	
- 1						_		l
- 1		0		0.00				l
						_		
_						-	_	
						-		
- 1				0.00				
				10:00		_		
						-		
						_	_	
				H-TV-I		-		
				0.00		-		
				0.00		-		
				Ball		$\dashv$		
-						_	1	
				ME VI				
				0.00				
				0,00				
	_	Total T	ime Summary	0.00				